

## Rabbit anti-Human SIGLEC10 Polyclonal Antibody | anti-SIGLEC10 antibody

SIGLEC10 Antibody (C-term)

|                               |                       |                            |                                            |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA288310</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|

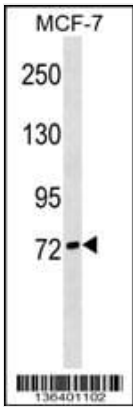
### PRODUCT SYNONYMS

SIGLEC10; Polyclonal Antibody; SIGLEC10 Antibody (C-term); Sialic acid-binding Ig-like lectin 10; Siglec-10; Siglec-like protein 2; SLG2; anti-SIGLEC10 antibody

### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reactivity                                         | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clonality                                          | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                                            | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                        | This SIGLEC10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 667-695 amino acids from the C-terminal region of human SIGLEC10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification                                | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Form/Format                                        | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Positions                                 | 667-695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sequence Length                                    | 639                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-SIGLEC10 antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Function                                           | Putative adhesion molecule that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,3- or alpha-2,6-linked sialic acid (By similarity). The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, seems to act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules (PubMed: , PubMed:12163025). Involved in negative regulation of B-cell antigen receptor signaling. The inhibition of B-cell activation is dependent on PTPN6/SHP-1 (By similarity). In association with CD24 may be involved in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70 and HSP90 (By similarity). In association with CD24 may regulate the immune response of natural killer (NK) cells (PubMed: ). Plays a role in the control of autoimmunity (By similarity). During initiation of adaptive immune responses by CD8- alpha(+) dendritic cells inhibits cross-presentation by impairing the formation of MHC class I-peptide complexes. The function seems to implicate recruitment of PTPN6/SHP-1, which dephosphorylates NCF1 of the NADPH oxidase complex consequently promoting phagosomal acidification (By similarity). |
| Cellular Location                                  | [Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Cell membrane; Single-pass type I membrane protein [Isoform 5]: Secreted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tissue Location                                    | Expressed by peripheral blood leukocytes (eosinophils, monocytes and a natural killer cell subpopulation) Isoform 5 is found to be the most abundant isoform. Found in lymph node, lung, ovary and appendix. Isoform 1 is found at high levels and isoform 2 at lower levels in bone marrow, spleen and spinal chord Isoform 2 is also found in brain. Isoform 4 is specifically found in natural killer cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage                            | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

IMAGES



**WB (Western Blot)**  
SIGLEC10 Antibody (C-term) (AAA288310) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the SIGLEC10 antibody detected the SIGLEC10 protein (arrow).

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SIGLEC10 antibody | SIGLECs are members of the immunoglobulin superfamily that are expressed on the cell surface. Most SIGLECs have 1 or more cytoplasmic immune receptor tyrosine-based inhibitory motifs, or ITIMs. SIGLECs are typically expressed on cells of the innate immune system, with the exception of the B-cell expressed SIGLEC6 (MIM 604405). |
| References                                             | Davila, S., et al. Genes Immun. 11(3):232-238(2010)<br>Kivi, E., et al. Blood 114(26):5385-5392(2009)<br>Szafranski, K., et al. Genome Biol. 8 (8), R154 (2007) :<br>Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)<br>Kitzig, F., et al. Biochem. Biophys. Res. Commun. 296(2):355-362(2002)                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------|
| NCBI GI #                        | 283837876                                                                                   |
| NCBI GeneID                      | 89790                                                                                       |
| NCBI Accession #                 | NP_001164627.1; NP_001164628.1; NP_001164629.1; NP_001164630.1; NP_001164632.1; NP_149121.2 |
| NCBI GenBank Nucleotide #        | NM_001171156.1                                                                              |
| UniProt Accession #              | Q96LC7; Q3MIR5; Q6UXI8; Q96G54; Q96LC8; A8K1I5; A8K3C7; C9JJ33; C9JM10; F8W917              |
| Molecular Weight                 | 76592                                                                                       |
| NCBI Official Full Name          | sialic acid-binding Ig-like lectin 10 isoform 2                                             |
| NCBI Official Synonym Full Names | sialic acid binding Ig-like lectin 10                                                       |
| NCBI Official Symbol             | SIGLEC10                                                                                    |
| NCBI Official Synonym Symbols    | SLG2; PRO940; SIGLEC-10                                                                     |
| NCBI Protein Information         | sialic acid-binding Ig-like lectin 10                                                       |
| UniProt Protein Name             | Sialic acid-binding Ig-like lectin 10                                                       |
| UniProt Gene Name                | <b>SIGLEC10</b>                                                                             |
| UniProt Synonym Gene Names       | SLG2; Siglec-10                                                                             |
| UniProt Entry Name               | SIG10_HUMAN                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/siglec10-antibody-western-blot-elisa/288310>