

anti-Human SIGLEC10 Antibody | anti-SIGLEC10 antibody

Anti-Hu SIGLEC10 PE

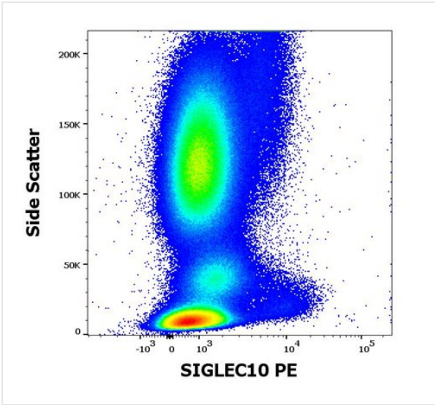
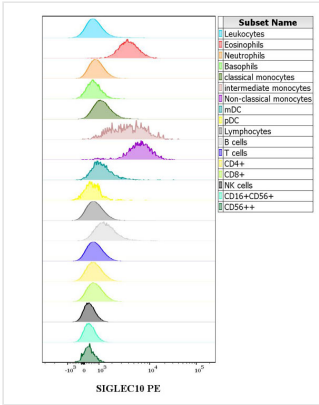
CATALOG # AAA129200	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

SIGLEC10; Anti-Hu SIGLEC10 PE; sialic acid binding Ig like lectin 10; PRO940; SGL2; anti-SIGLEC10 antibody

PRODUCT SPECIFICATIONS

Reactivity	Human
Isotype	Mouse IgG1
Clone Number	5G6
Specificity	The mouse monoclonal antibody 5G6 recognizes an extracellular epitope of human SIGLEC10, a sialic acid-binding lectin expressed on subsets of human leucocytes.
Form/Format	PE Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-SIGLEC10 antibody	FCM/FACS (Flow Cytometry)
Immunogen	SIGLEC10 extracellular domain fused with human IgG1 Fc fragment
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.



FCM/FACS (Flow Cytometry)
Expression profiling on peripheral blood subsets using Anti-SIGLEC10 PE antibody (clone 5G6).HCDM CDMaps standardized procedures (Kuzilkova D et al. Front Immunol. 2022;13:827898) were used for cell isolation and surface staining of blood leukocytes, with the modification of staining protocol using cytometry test tubes. Suspension of blood leukocytes isolated from buffy coats (2 x 10⁶ cells) was added to the mixture of anti-human SIGLEC10 PE antibody (clone 5G6, 10 µl reagent / 100 µl of stained blood sample) and Monocyte Blocking Buffer (#ED7747), vortexed and incubated for 20 min. Next, optimized backbone antibody panels (HLDA Innate and HLDA Adaptive) were added to test tubes, vortexed and incubated for 20 min. The residual erythrocytes were lysed with 2 ml of 10× diluted EXCELLYSE Easy solution (#ED7066) and incubated for 10 min. Finally, samples were centrifuged (670 g, 5 min.), supernatant removed and the cell pellet was resuspended in 200 µl of PBS for acquisition.

FCM/FACS (Flow Cytometry)
Anti-SIGLEC10 PE antibody (clone 5G6) works in flow cytometry application. Analysis of the antibody staining profile was performed on blood leukocytes isolated from buffy coats. HCDM CDMaps standardized procedures (Kuzilkova D et al. Front Immunol. 2022;13:827898) were used for cell isolation and surface staining of blood leukocytes, with the modification of staining protocol using cytometry test tubes. Mouse monoclonal anti-human SIGLEC10 PE antibody (clone 5G6) was used in amount of 10 µl in 100 µl of blood sample (2 x 10⁶ cells).

ADDITIONAL INFORMATION

Related Product Information for anti-SIGLEC10 antibody	SIGLEC10 is a CD33-related receptor of sialoglycans, expressed on eosinophils, monocytes, a subpopulation of NK cells, and at lower level on B cells. Its murine ortholog is Siglec G. SIGLEC10 seems to act as an immunomodulatory receptor, which binds to VAP-1, a glycoprotein expressed on endothelium under inflammatory conditions. Another ligand of SIGLEC10 is CD24, a marker of poorer prognosis in carcinomas.
References	*Stephenson HN, Mills DC, Jones H, Milioris E, Copland A, Dorrell N, Wren BW, Crocker PR, Escors D, Bajaj-Elliott M: Pseudaminic acid on Campylobacter jejuni flagella modulates dendritic cell IL-10 expression via Siglec-10 receptor: A novel flagellin-host interaction. J Infect Dis. 2014 Nov 1;210(9):1487-98., URL: https://pubmed.ncbi.nlm.nih.gov/24823621/,*Nguyen DH, Ball ED, Varki A: Myeloid precursors and acute myeloid leukemia cells express multiple CD33-related Siglecs. Exp Hematol. 2006 Jun;34(6):728-35., URL: https://pubmed.ncbi.nlm.nih.gov/16728277/,*Läubli H, Kawanishi K, Vazhappilly CG, Matar R, Merheb M, Siddiqui SS: Tools to study and target the Siglec-sialic acid axis in cancer. FEBS J. 2021 Nov;288(21):6206-6225., URL: https://pubmed.ncbi.nlm.nih.gov/33251699/,*Bhamidipati K, Silberstein JL, Chaichian Y, Baker MC, Lanz TV, Zia A, Rasheed YS, Cochran JR, Robinson WH: CD52 is elevated on B cells of SLE patients and regulates B cell function. Front Immunol. 2021 Feb 4;11:626820., URL: https://pubmed.ncbi.nlm.nih.gov/33658999/,*Munday J, Kerr S, Ni J, Cornish AL, Zhang JQ, Nicoll G, Floyd H, Mattei MG, Moore P, Liu D, Crocker PR: Identification, characterization and leucocyte expression of Siglec-10, a novel human sialic acid-binding receptor. Biochem J. 2001 Apr 15;355(Pt 2):489-97., URL: https://pubmed.ncbi.nlm.nih.gov/11284738/,

NCBI AND UNIPROT INFORMATION

NCBI GI #	283837876
NCBI GeneID	89790
NCBI Accession #	NP_001164627.1
NCBI GenBank Nucleotide #	NP_001164627.1
UniProt Accession #	Q96LC7
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	SIGLEC10
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/human-antibody/siglec10/129200>