

## Mouse anti-Human CD45 Antibody | anti-CD45 antibody

CD45 Antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                              |
|-----------|-------|------------|-------------------------------------------|
| AAA108421 | Mouse | Human      | ELISA, Immunohistochemistry, Western Blot |

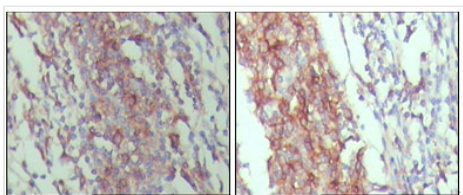
### PRODUCT SYNONYMS

CD45; CD45 Antibody; LCA; LY5; B220; T200; CD45R; GP180; PTPRC; anti-CD45 antibody

### PRODUCT SPECIFICATIONS

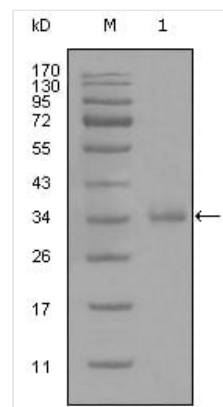
|                                                |                                                                   |
|------------------------------------------------|-------------------------------------------------------------------|
| Host                                           | Mouse                                                             |
| Reactivity                                     | Human                                                             |
| Isotype                                        | IgG1                                                              |
| Clone Number                                   | 4A8A4C7A2                                                         |
| Form/Format                                    | Ascitic fluid containing 0.03% sodium azide.                      |
| Sequence Length                                | 87                                                                |
| Applicable Applications for anti-CD45 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)              |
| Immunogen                                      | Purified recombinant fragment of CD45 expressed in E. Coli.       |
| Preparation and Storage                        | Store at 4 degree C, for long term storage, store at -20 degree C |

### IMAGES



#### Application Data

Figure 2. Immunohistochemical analysis of paraffin-embedded human lymph node tissue, showing membrane and cytoplasmic localization with DAB staining using CD45 mouse mAb.



#### Application Data

Figure 1. Western blot analysis using anti-CD45 monoclonal antibody against truncated CD45 recombinant protein (1).

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD45 antibody | CD45, also known as TPRC(protein tyrosine phosphatase, receptor type, C). The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T-and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. |
| Product Categories/Family for anti-CD45 antibody   | Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 392306955                                              |
| NCBI GeneID                      | 5788                                                   |
| NCBI Accession #                 | NP_001254727.1                                         |
| NCBI GenBank Nucleotide #        | NM_001267798.1                                         |
| Molecular Weight                 | 131,130 Da                                             |
| NCBI Official Full Name          | receptor-type tyrosine-protein phosphatase C isoform 5 |
| NCBI Official Synonym Full Names | protein tyrosine phosphatase, receptor type C          |
| NCBI Official Symbol             | PTPRC                                                  |
| NCBI Official Synonym Symbols    | LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180         |
| NCBI Protein Information         | receptor-type tyrosine-protein phosphatase C           |
| UniProt Protein Name             | Receptor-type tyrosine-protein phosphatase C           |
| UniProt Gene Name                | PTPRC                                                  |
| UniProt Synonym Gene Names       | L-CA                                                   |

**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/mouse-human-antibody/cd45/108421>