

## Rabbit anti-Human CD45 Polyclonal Antibody | anti-PTPRC antibody

Anti-CD45 antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                |
|-----------|--------|------------|-----------------------------------------------------------------------------|
| AAA45129  | Rabbit | Human      | Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot |

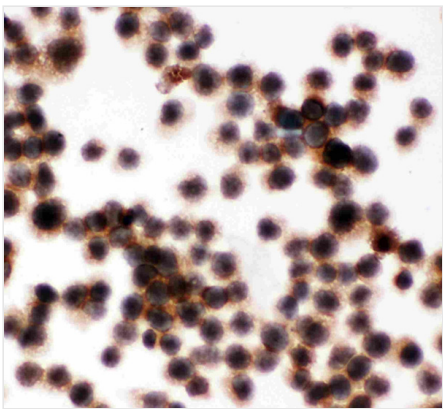
### PRODUCT SYNONYMS

CD45; Polyclonal Antibody; Anti-CD45 antibody; Receptor-type tyrosine-protein phosphatase C; protein tyrosine phosphatase; receptor type; C; B220 antibody; CD 45 antibody; CD45 antibody; CD45 antigen antibody; CD45R antibody; GP180 antibody; L CA antibody; L-CA antibody; LCA antibody; Leukocyte common antigen antibody; loc antibody; Ly-5 antibody; LY5 antibody; Lyt-4 antibody; OTTHUMP00000033813 antibody; OTTHUMP00000033816 antibody; OTTHUMP00000033817 antibody; OTTHUMP000000338574 antibody; Protein tyrosine phosphatase receptor type C antibody; Protein tyrosine phosphatase receptor type c polypeptide antibody; C antibody; PTPRC antibody; PTPRC\_HUMAN antibody; Receptor-type tyrosine-protein phosphatase C antibody; SCID due to PTPRC deficiency antibody; T200 antibody; T200 glycoprotein antibody; T200 leukocyte common antigen antibody; anti-PTPRC antibody

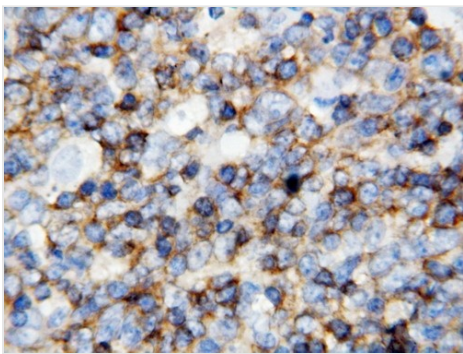
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                          |
| Reactivity                                      | Human                                                                                                                                                                           |
| Clonality                                       | Polyclonal                                                                                                                                                                      |
| Isotype                                         | IgG                                                                                                                                                                             |
| Specificity                                     | No cross reactivity with other proteins                                                                                                                                         |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                    |
| Form/Format                                     | Lyophilized ; Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> .                                      |
| Sequence Length                                 | 1304                                                                                                                                                                            |
| Applicable Applications for anti-PTPRC antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)                                                                               |
| Immunogen                                       | A synthetic peptide corresponding to a sequence at the C-terminus of human CD45.                                                                                                |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                            |
| Preparation and Storage                         | At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing. |

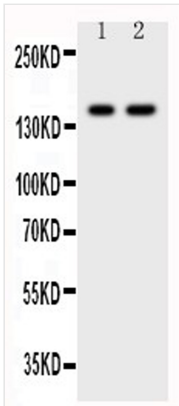
IMAGES



ICC (Immunocytochemistry)  
Anti-CD45 antibody, AAA45129, ICCIC: JURKAT Cell



IHC (Immunohistochemistry)  
Anti-CD45 antibody, AAA45129, IHC(P)IHC(P): Human Tonsil Tissue



WB (Western Blot)  
Anti-CD45 antibody, AAA45129, Western blottingAll lanes: Anti CD45 (AAA45129) at 0.5ug/mL  
Lane 1: JURKAT Whole Cell Lysate at 40ug  
Lane 2: CEM Whole Cell Lysate at 40ug  
Predicted bind size: 147KD  
Observed bind size: 147KD

ADDITIONAL INFORMATION

Related Product Information for anti-PTPRC antibody

Background: CD45(Cluster of Differentiation 45), also known as PTPRC, LCA or CD45R, is an enzyme that, in humans, is encoded by the PTPRC gene.CD45 is a member of the protein tyrosine phosphatase(PTP) family. CD45 is a major high molecular mass leukocyte cell surface molecule which is also an integral membrane protein tyrosine phosphatase.The cytogenetic location of CD45 is 1q31.3-q32.1. CD45 is especially a prototype for transmembrane protein-tyrosine phosphatase(PTP). Targeted disruption of the CD45 gene leads to enhanced cytokine and interferon receptor-mediated activation of JAKs and STAT proteins. In vitro, CD45 directly dephosphorylates and binds to JAKs. Functionally, CD45 negatively regulates interleukin-3-mediated cellular proliferation, erythropoietin-dependent hematopoiesis, and antiviral responses in vitro and in vivo. CD45 has been best studied in T cells, where it determines T cell receptor signaling thresholds. CD45 is moved into or out of the immunological synapse(IS) membrane microdomain depending on the relative influence of interaction with the extracellular galectin lattice or the intracellular actin cytoskeleton. Galectin interaction can be finetuned by varying usage of the heavily Oglycosylated spliced regions and sialylation of Nlinked carbohydrates.

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 33112650                                       |
| NCBI GeneID                      | 5788                                           |
| UniProt Accession #              | P08575; Q16614; Q9H0Y6; A8K7W6                 |
| NCBI Official Full Name          | Receptor-type tyrosine-protein phosphatase C   |
| 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; CD45 antigen; T200 glycoprotein; T200 leukocyte common antigen; protein tyrosine phosphatase, receptor type, c polypeptide |
| UniProt Protein Name          | Receptor-type tyrosine-protein phosphatase C                                                                                                                             |
| UniProt Gene Name             | <b>PTPRC</b>                                                                                                                                                             |
| UniProt Synonym Gene Names    | CD45; L-CA                                                                                                                                                               |
| UniProt Entry Name            | PTPRC_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://stage.aaabiotech.com/polyclonal/cd45-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/45129>