

Rat anti-Mouse CD45 Monoclonal Antibody | anti-CD45 antibody

Anti-Ms CD45 Purified

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128521	Rat	Mouse	Immunocytochemistry, Western Blot, Immunoprecipitation, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD45; Monoclonal Antibody; Anti-Ms CD45 Purified; protein tyrosine phosphatase; receptor type; C; LCA; Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; L-CA; T200; LY5; GP180; anti-CD45 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG
Clone Number	EM-05
Specificity	The rat monoclonal antibody EM-05 reacts with an extracellular epitope of murine CD45 antigen (Leukocyte Common Antigen), a single chain type I transmembrane protein expressed at high level on cells of hematopoietic origin, except erythrocytes and platelets.
Purity/Purification	Purified by Protein-A Affinity Chromatography
Form/Format	Phosphate buffered saline (PBS) solution with 15 mM sodium azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	879
Applicable Applications for anti-CD45 antibody	ICC (Immunocytochemistry), WB (Western Blot), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
Immunogen	Murine peripheral blood leukocytes
Preparation and Storage	Store at 2-8 degree C.

ADDITIONAL INFORMATION

Related Product Information for anti-CD45 antibody	CD45 (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10% of all surface proteins in lymphocytes. CD45 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases. CD45 protein exists as multiple isoforms as a result of alternative splicing; these isoforms differ in their extracellular domains, whereas they share identical transmembrane and cytoplasmic domains. These isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. Besides the role in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	123795742
NCBI GeneID	19264

UniProt Accession #	Q8C6Q7; P06800
NCBI Official Full Name	2 days pregnant adult female oviduct cDNA, RIKEN full-length enriched library, clone:E230015G23 product:protein tyrosine phosphatase, receptor type, C, full insert sequence
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, C
NCBI Official Symbol	Ptprc
NCBI Official Synonym Symbols	loc; B220; Cd45; L-CA; Ly-5; T200; CD45R; Lyt-4
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C

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/monoclonal/cd45-antibody-clone-em-05-immunocytochemistry-western-blot-immunoprecipitation-flow-cytometry-elisa/128521>