

Rabbit CD45 Polyclonal Antibody | anti-CD45 antibody

Phospho-CD45 (Ser1007) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321499	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

CD45; Polyclonal Antibody; Phospho-CD45 (Ser1007) Antibody; B220; CD 45; CD45 antigen; CD45R; GP180; L-CA; LCA; Leukocyte common antigen; loc; Ly-5; LY5; Ly5; homolog of; Lyt-4; OTTHUMP00000033813; OTTHUMP00000033816; OTTHUMP00000033817; OTTHUMP00000038574; Protein tyrosine phosphatase receptor type c polypeptide; Protein tyrosine phosphatase; receptor type C; protein tyrosine phosphatase; receptor type; C; c polypeptide; Ptpcr; PTPRC_HUMAN; Receptor-type tyrosine-protein phosphatase C; T200; T200 glycoprotein; T200 leukocyte common antigen; anti-CD45 antibody

PRODUCT SPECIFICATIONS

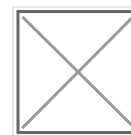
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-CD45 (Ser1007) antibody detects endogenous levels of CD45 only when phosphorylated at Serine 1007
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1306
Applicable Applications for anti-CD45 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CD45 around the phosphorylation site of Serine 1007
Subcellular Location	Membrane. Membrane Raft. Colocalized with DPP4 in membrane rafts.
Conjugation	Unconjugated
Epitope	Phospho Ser1007
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321499 staining HeLa cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



WB (Western Blot)

Western blot analysis of Phospho-CD45 (Ser1007) Antibody expression in TNF treated HeLa cells lysates. The lane on the right is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of CD45 phosphorylation expression in TNF treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CD45 antibody	Description: 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. Function: Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity (By similarity). Subunit Structure: Binds GANAB and PRKCSH (By similarity). Interacts with SKAP1. Interacts with DPP4; the interaction is enhanced in a interleukin-12-dependent manner in activated lymphocytes. Interacts with human cytomegalovirus protein UL11. Post-translational Modifications: Heavily N-and O-glycosylated. Similarity: The first PTPase domain interacts with SKAP1. Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	392307007
NCBI GeneID	5788
NCBI Accession #	NP_002829.3
NCBI GenBank Nucleotide #	NM_002838.4
UniProt Accession #	P08575; Q16614; Q9H0Y6; A0A0A0MT22; A8K7W6; X6R433
Molecular Weight	Observed: 150 kDa Predicted: 148 kDa
NCBI Official Full Name	receptor-type tyrosine-protein phosphatase C isoform 1
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://stage.aaabiotech.com/polyclonal/cd45-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321499>