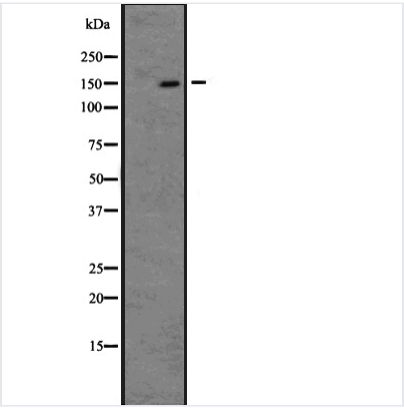
CD45 Antibody

PRODUCT OVERVIEW

Product Name	CD45, Antibody
Full Product Name	CD45 Antibody
Product Gene Name	anti-CD45 antibody
Molecular Weight	131,130 Da
OMIM	126200
3D Structure	ModBase 3D Structure for P08575
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CD45 antibody	MBS8513600 is an antibody targeting CD45. Also known as CD45 Antibody.
Other Notes	Small volumes of anti-CD45 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CD45 antibody
Western blot analysis CD45 using HUVEC whole cell lysates

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD45. It may not necessarily be applicable to this product.

NCBI GI #	392307007
NCBI GeneID	5788
NCBI Accession #	NP_002829.3
UniProt Primary Accession #	P08575
UniProt Secondary Accession #	Q16614; Q9H0Y6; A0A0A0MT22; A8K7W6; X6R433
UniProt Related Accession #	P08575
GenBank Nucleotide #	NM_002838.4
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
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Synonym Protein Names	Leukocyte common antigen; L-CA; T200; CD_antigen: CD45
Protein Family	Protein tyrosine phosphatase receptor type C-associated protein
UniProt Gene Name	PTPRC
UniProt Synonym Gene Names	L-CA
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C
NCBI Summary for CD45	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, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. 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. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq, Jun 2012]
UniProt Comments for CD45	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 ().
Research Articles on CD45	**1.** CD45 is a regulator of IL-2 synergy in the NKG2D-mediated activation of immature human NK cells
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