

Anti-CD45 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

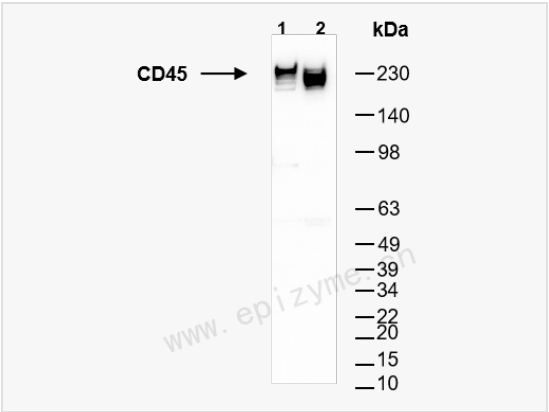
Catalog # M016173

Product Information

Application	WB, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	33S59Q25
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human CD45
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-CD45 Mouse mAb [33S59Q25] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	B220; CD 45; CD45 antigen; GP180; L-CA; LCA; Leukocyte common antigen; loc; Ly-5; LY5; Ly5, homolog of; Lyt-4; OTTHUMP00000033813; OTTHUMP00000033816; OTTHUMP00000033817; OTTHUMP000000338574; Protein tyrosine phosphatase receptor type c polypeptide; Protein tyrosine phosphatase, receptor type C; protein tyrosine phosphatase, receptor type, C; Protein tyrosine phosphatase, receptor type, c polypeptide; Ptprc; PTPRC_HUMAN; Receptor-type tyrosine-protein phosphatase C; T200; T200 glycoprotein; T200 leukocyte common antigen.
Calculated MW	Calculated MW: 144 kDa; Observed MW: 180~240 kDa
Uniprot ID	P08575
Gene ID	5788
Background	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]
Cellular Location	Membrane; Single-pass type I membrane protein. Membrane raft. Note=Colocalized with DPP4 in membrane rafts.



Western Blot - Anti-CD45 Mouse mAb [33S59Q25]
All lanes: M016173 at 1:1,000 dilution
Lane 1 : Raji (human hematopoietic lymphoblast cell) whole cell lysates
Lane 2 : Jurkat (human T-cell leukemia cell) whole cell lysates
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Lysates/proteins at 15 µg per lane.
Predicted band size: 144 kDa
Observed band size: 180~240 kDa
Developed using the ECL technique (Cat. No. SQ201).