

Anti-CD45 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

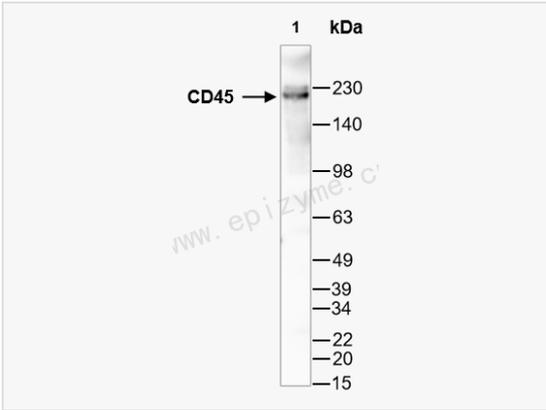
Catalog # R015229

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:5,000; IHC-P 1:1,000~1:10,000; IF 1:200~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	99T56I88
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human CD45
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% 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 Rabbit mAb [99T56I88] 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; OTTHUMP00000038574; 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: 147 kDa; Observed MW: 140-200 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 Rabbit mAb [99T56188]

All lanes: R015229 at 1:3,000 dilution

Lane 1: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates

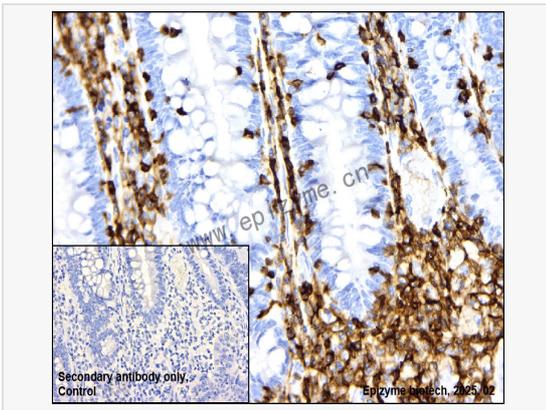
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 147 kDa

Observed band size: 140-200 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-CD45 Rabbit mAb [99T56188]

Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015229 at 1:6,000 dilution

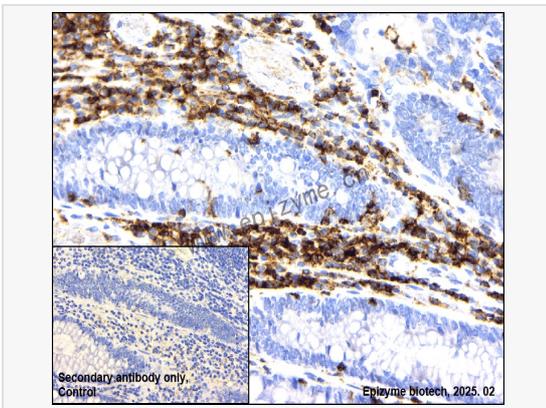
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-CD45 Rabbit mAb [99T56188]

Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015229 at 1:6,000 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.