

Anti-CD45 PTPRC Rabbit Monoclonal Antibody

Catalog # ABO13351

Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	P08575
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-CD45 PTPRC Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

Additional Information

Gene ID	5788
Other Names	Receptor-type tyrosine-protein phosphatase C, 3.1.3.48, Leukocyte common antigen, L-CA, T200, CD45, PTPRC (HGNC:9666), CD45
Calculated MW	147486
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:100 FC 1:20
Subcellular Localization	Membrane ; Single-pass type I membrane protein. Membrane raft. Colocalized with DPP4 in membrane rafts.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: CBI-16
Immunogen	A synthesized peptide derived from human CD45
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	PTPRC (HGNC:9666)
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Synonyms

CD45

Function

Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor (PubMed:[35767951](#)). 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). Interacts with CLEC10A at antigen presenting cell-T cell contact; CLEC10A on immature dendritic cells recognizes Tn antigen- carrying PTPRC/CD45 receptor on effector T cells and modulates T cell activation threshold to limit autoreactivity.

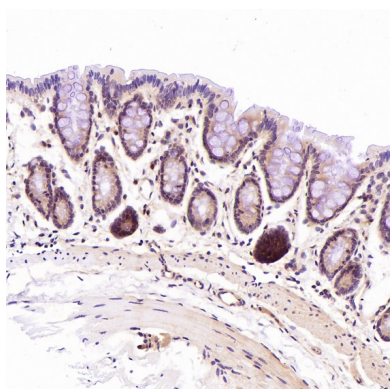
Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft. Synapse. Note=Colocalized with DPP4 in membrane rafts.

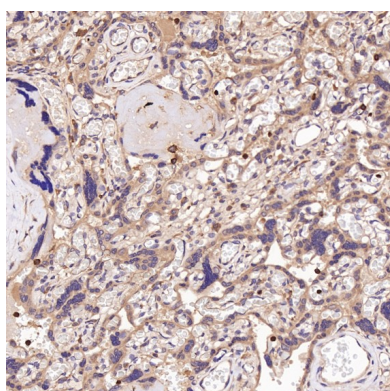
Tissue Location

Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes Isoform 8: Not detected in thymocytes.

Images

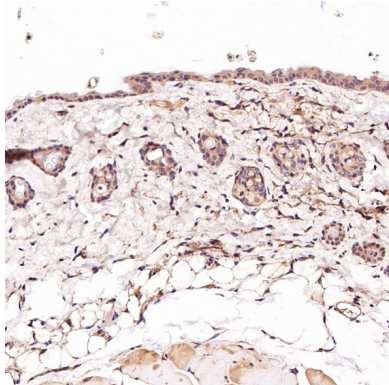
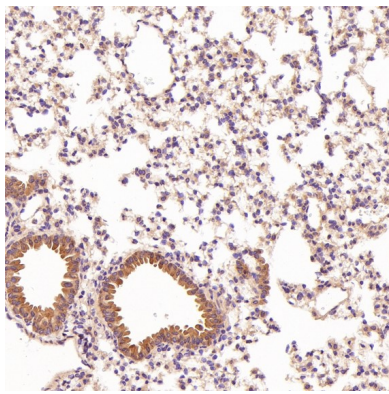


Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:100 dilution.

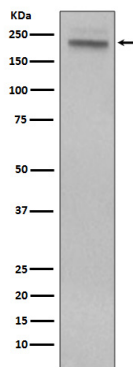


Immunohistochemical analysis of paraffin-embedded Human placenta, using the Antibody at 1:100 dilution.

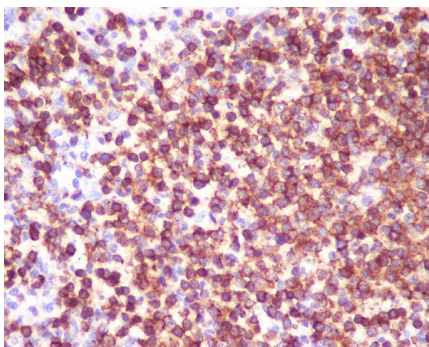
Immunohistochemical analysis of paraffin-embedded Mouse lung, using the Antibody at 1:100 dilution.



Immunohistochemical analysis of paraffin-embedded Mouse skin, using the Antibody at 1:100 dilution.



Western blot analysis of CD45 expression in Jurkat cell lysate.



Immunohistochemical analysis of paraffin-embedded human spleen, using CD45 Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.