

# CD45 Rabbit mAb

Catalog # AP77449

## Product Information

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<b>Application</b>	WB, IHC-P, IF, FC, ICC
<b>Primary Accession</b>	<a href="#">P08575</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human CD45
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	147486

## Additional Information

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<b>Gene ID</b>	5788
<b>Other Names</b>	PTPRC
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	PTPRC ( <a href="#">HGNC:9666</a> )
<b>Synonyms</b>	CD45
<b>Function</b>	Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor (PubMed: <a href="#">35767951</a> ). 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.
<b>Cellular Location</b>	Cell membrane; Single-pass type I membrane protein. Membrane raft.

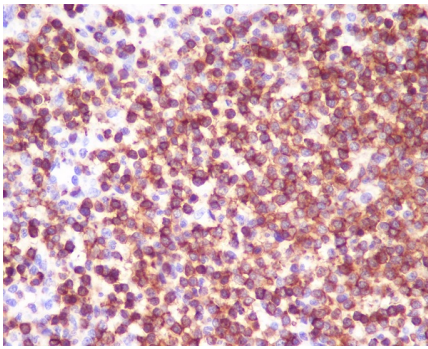
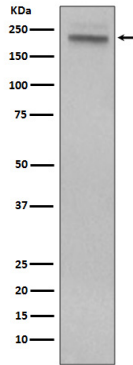
Synapse. Note=Colocalized with DPP4 in membrane rafts.

## 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

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