

**CD45 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS12373****Specification**

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**CD45 Antibody (C-Terminus) - Product Information**

Application	IHC-P
Primary Accession	<a href="#">P08575</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	147kDa KDa
Dilution	IHC-P~~N/A

**CD45 Antibody (C-Terminus) - 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, CD45

**Reconstitution & Storage**

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

**Precautions**

CD45 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**CD45 Antibody (C-Terminus) - Protein Information****Name** PTPRC ([HGNC:9666](#))**Synonyms** CD45**Function**

Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor (PubMed:<a href="http://www.uniprot.org/citations/35767951" target="\_blank">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.

**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.

#### **Volume**

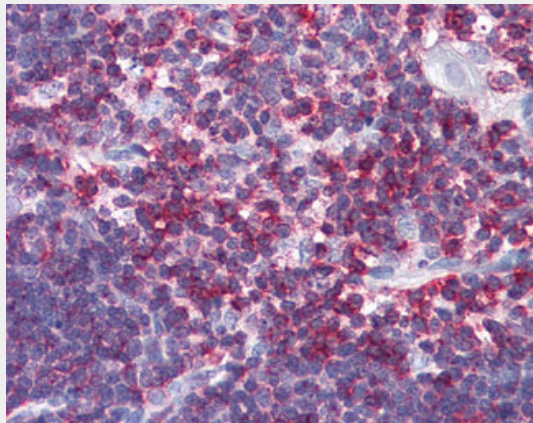
125 µl

### **CD45 Antibody (C-Terminus) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **CD45 Antibody (C-Terminus) - Images**



Anti-CD45 antibody IHC of human thymus.

### **CD45 Antibody (C-Terminus) - Background**

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### **CD45 Antibody (C-Terminus) - References**

Streuli M.,et al.J. Exp. Med. 166:1548-1566(1987).  
Ralph S.J.,et al.EMBO J. 6:1251-1257(1987).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Tsai A.Y.M.,et al.Mol. Cell. Biol. 9:4550-4555(1989).  
Hall L.R.,et al.J. Immunol. 141:2781-2787(1988).