

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

**Specification**

---

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

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

**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).

**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.

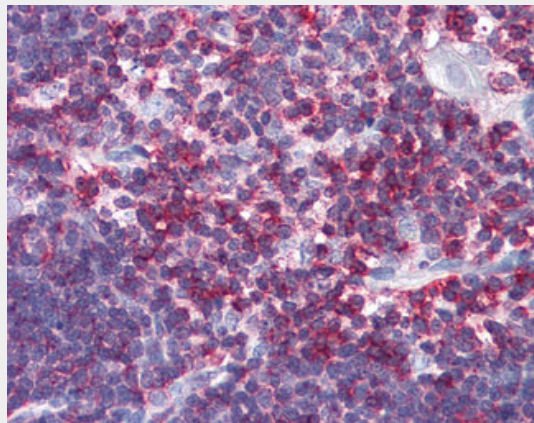
**Volume**  
125 µl

### **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**

Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. 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).

### **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).