

**CD45RA**  
**Mouse Monoclonal antibody(Mab)**  
**Catalog # AD80523****Specification**

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**CD45RA - Product info**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P                  |
| Primary Accession | <a href="#">P08575</a> |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | 147486                 |

**CD45RA - Additional info**Gene ID **5788****Other Names**

Receptor-type tyrosine-protein phosphatase C, 3.1.3.48, Leukocyte common antigen, L-CA, T200, CD45, PTPRC ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=9666](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9666)), CD45

**Dilution**

IHC-P~~Ready-to-use

**Storage**

Maintain refrigerated at 2-8°C

**CD45RA - Protein Information****Name** PTPRC ([HGNC:9666](#))**Synonyms**  
**Function****CD45**

**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**

Cellular Location

**effector T cells and modulates T cell activation threshold to limit autoreactivity.**

Tissue Location

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

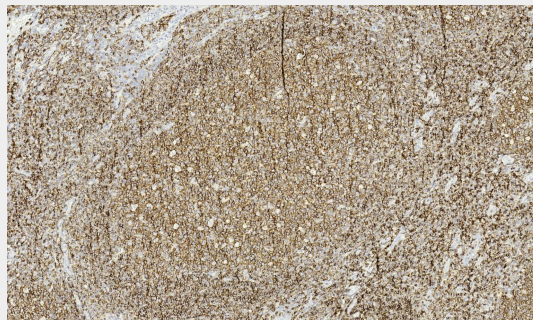
**Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes. Isoform 8: Not detected in thymocytes.**

### **CD45RA - 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](#)

### **CD45RA - Images**



Tonsil