

**CD45RO**  
**Mouse Monoclonal antibody(Mab)**  
**Catalog # AD80011****Specification**

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**CD45RO - Product info**

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

**CD45RO - Additional info**

Gene ID	5788
Gene Name	PTPRC ( <a href="#">HGNC:9666</a> )

**Other Names**

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

**Dilution**

IHC-P~~Ready-to-use

IHC~~Ready-to-use

Storage	<b>This product is stored at 2-8 °C, please use it within the expiration date.</b>
Precautions	<b>CD45RO Antibody is for research use only and not for use in diagnostic or therapeutic procedures.</b>

**CD45RO - Protein Information**

**Name** PTPRC ([HGNC:9666](#))

**Synonyms**

**Function**

**CD45**

**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).**

Cellular Location

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

Tissue Location

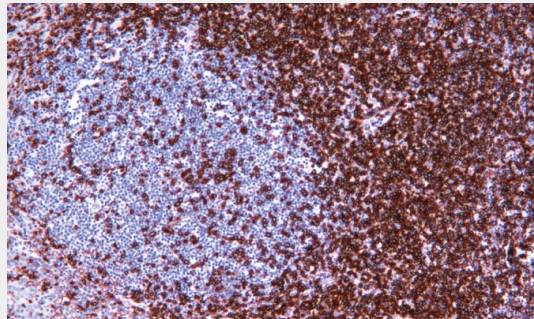
**Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes. Isoform 8: Not detected in thymocytes**

### **CD45RO - Protocols**

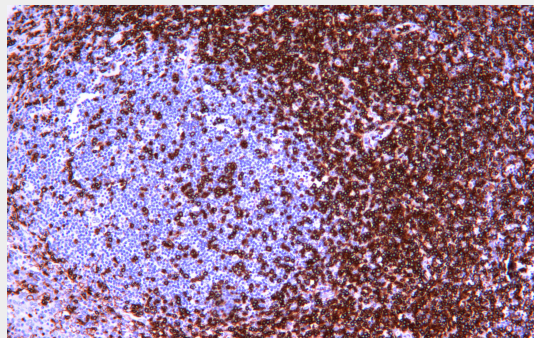
Provided below are standard protocols that you may find useful for product applications.

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

### **CD45RO - Images**



Tonsil



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using AD80011 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6. 0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room

temperature. AmpSee™ Detection Systems [Abcepta:AR005] was used as the secondary antibody.