

CD45
Rabbit Monoclonal antibody(Mab)
Catalog # AD80064

Specification

CD45 - Product info

Application	IHC-P
Primary Accession	P08575
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	147486

CD45 - Additional info

Gene ID	5788
Gene Name	PTPRC (HGNC:9666)

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), CD45

Dilution

IHC-P~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C

Precautions

CD45 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CD45 - 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

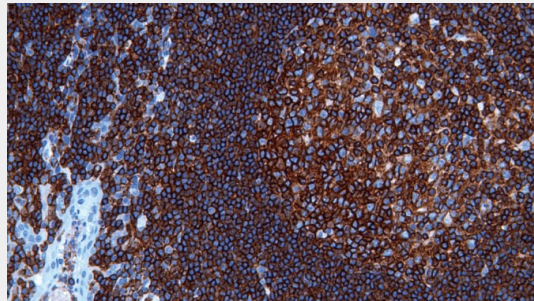
Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes. Isoform 8: Not detected in thymocytes

CD45 - Protocols

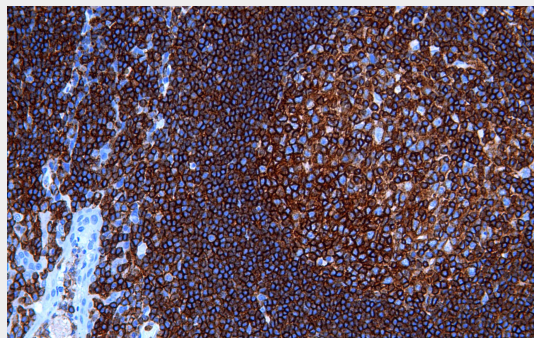
Provided below are standard protocols that you may find useful for product applications.

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

CD45 - Images



Tonsil



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using AD80064 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.