

CD45 antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22447a**Specification**

CD45 antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB,E |
| Primary Accession | P08575 |
| Host | Rabbit |
| Clonality | polyclonal |
| Isotype | Rabbit Ig |
| Calculated MW | 147486 |

CD45 antibody - 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 ([HGNC:9666](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9666)), CD45

Target/Specificity

This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from human.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

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

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

Cellular Location

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

Tissue Location

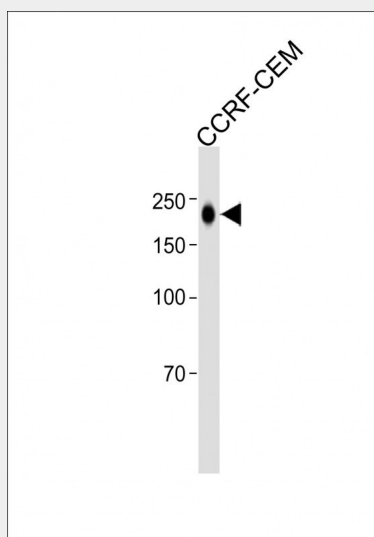
Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes Isoform 8: Not detected in thymocytes.

CD45 antibody - 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 - Images



All lanes: Anti-CD45 antibody at 1:1000 dilution + CCRF-CEM whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 200 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

CD45 antibody - Background

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).

CD45 antibody - 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).

Gregory S.G.,et al.Nature 441:315-321(2006).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.