

**Anti-PTPRC / CD45 Reference Antibody (apamistamab)**  
**Recombinant Antibody**  
**Catalog # APR10656**

**Specification**

**Anti-PTPRC / CD45 Reference Antibody (apamistamab) - Product Information**

Application	FC, Kinetics, Animal Model
Primary Accession	<a href="#">P08575</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	146.52 KDa

**Anti-PTPRC / CD45 Reference Antibody (apamistamab) - Additional Information**

**Target/Specificity**  
PTPRC / CD45

**Endotoxin**  
< 0.001EU/ µg, determined by LAL method.

**Conjugation**  
Unconjugated

**Expression system**  
CHO Cell

**Format**  
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

**Anti-PTPRC / CD45 Reference Antibody (apamistamab) - 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). Interacts with CLEC10A at antigen presenting cell-T cell contact; CLEC10A on immature dendritic cells recognizes Tn antigen- carrying PTPRC/CD45 receptor on effector T cells and modulates T cell activation threshold to limit autoreactivity.

### Cellular Location

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

### Tissue Location

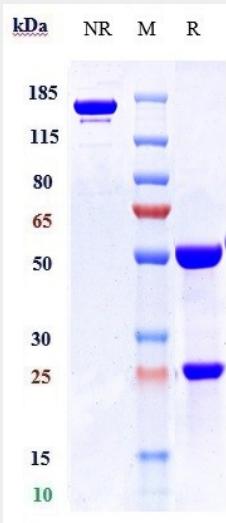
Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes Isoform 8: Not detected in thymocytes.

### Anti-PTPRC / CD45 Reference Antibody (apamistamab) - Protocols

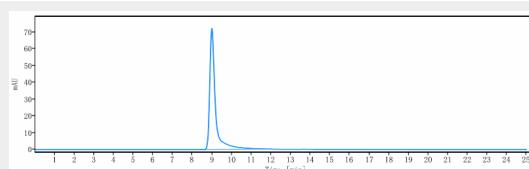
Provided below are standard protocols that you may find useful for product applications.

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

### Anti-PTPRC / CD45 Reference Antibody (apamistamab) - Images



Anti-PTPRC / CD45 Reference Antibody (apamistamab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-PTPRC / CD45 Reference Antibody (apamistamab) is more than 99.81%, determined by SEC-HPLC.