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Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45)

Recombinant Antibody
Catalog # APR10026

Specification

Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45) - Product Information

Application	**FC, Kinetics, Animal Model**
Primary Accession	P08575
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**150 KDa**

Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45) - 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 (Novartis patent anti-CD45) - 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). 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.

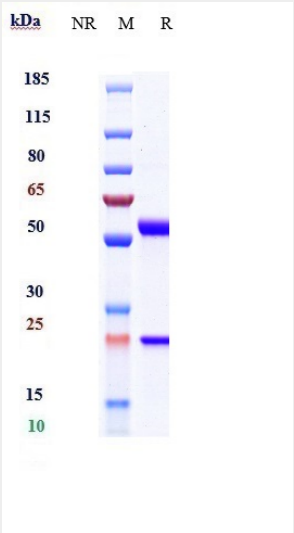
Tissue Location
Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes Isoform 8: Not detected in thymocytes.

Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45) - Protocols

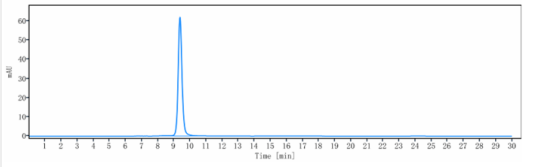
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45) - Images



Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45)is more than 95% ,determined by SEC-HPLC.

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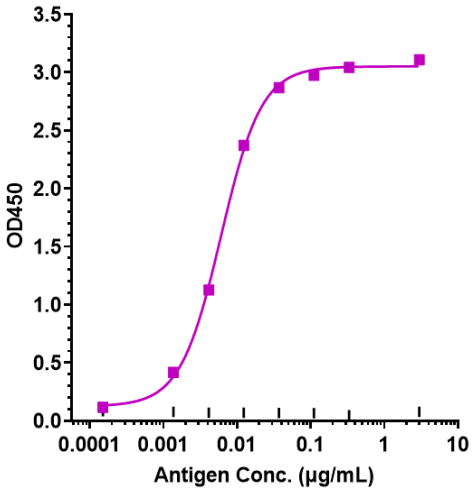

Immobilized human IL-18 His at4 µg/mL can bind Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45)□EC50=0.00604 µg/mL.