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

Recombinant Antibody
Catalog # APR10026

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P08575
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	147486

Additional Information

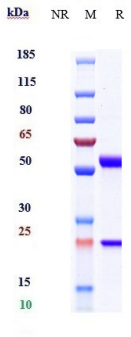
Target/Specificity	PTPRC / CD45
Endotoxin Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Protein Information

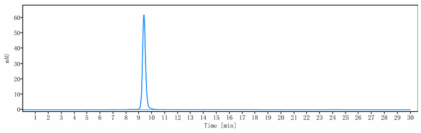
Name	PTPRC (HGNC:9666)
Synonyms	CD45
Function	Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor (PubMed:35767951). Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second 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.

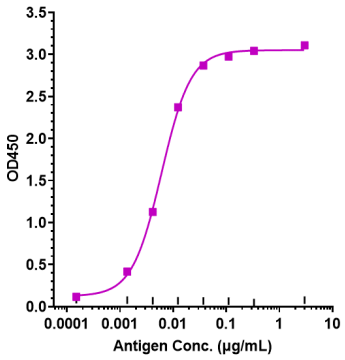
Images



Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45) on SDS-PAGE under reducing (R) condition. 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.



Immobilized human IL-18 His at 4 ug/mL can bind Anti-PTPRC / CD45 Reference Antibody (Novartis patent anti-CD45), EC50=0.00604 ug/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.