

Ptprc Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14353

Product Information

Application	WB
Primary Accession	P04157
Other Accession	NM_138507 , NP_612516
Reactivity	Human, Mouse, Rat, Rabbit, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	143269

Additional Information

Gene ID	24699
Alias Symbol	CD45, L-CA, Lca, RT7, T200
Other Names	Receptor-type tyrosine-protein phosphatase C, 3.1.3.48, Leukocyte common antigen, L-CA, T200, CD45, Ptprc
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Ptprc antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Ptprc Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

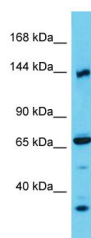
Name	Ptprc
Function	Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN (By similarity). 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 {ECO:0000250 UniProtKB:P08575}; Single-pass type I membrane protein. Membrane raft {ECO:0000250 UniProtKB:P08575}. Synapse {ECO:0000250 UniProtKB:P08575} Note=Colocalized with DPP4 in membrane rafts {ECO:0000250 UniProtKB:P08575}
Tissue Location	Isoform 1 and isoform 2 are found in thymocyte and lymph node. Isoform 4 and isoform 3 are found in the lymph nod

References

Barclay A.N.,et al.EMBO J. 6:1259-1264(1987).
Barclay A.N.,et al.Submitted (MAY-1987) to the EMBL/GenBank/DDBJ databases.
Thomas M.L.,et al.Cell 41:83-93(1985).

Images



Host: Rabbit
Target Name: Ptpcr
Sample Tissue: Rat Spleen lysates
Antibody Dilution: 1.0µg/ml

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