

Recombinant Mouse Ptprij Protein, Myc/DDK-tagged

Cat. No. Ptprij-2247M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse protein tyrosine phosphatase, receptor type, J (Ptprij), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Tyrosine phosphatase which dephosphorylates or contributes to the dephosphorylation of CTNND1, FLT3, PDGFRB, MET, RET, KDR, LYN, SRC, MAPK1, MAPK3, EGFR, TJP1, OCLN, PIK3R1 and PIK3R2. Plays a role in cell adhesion, migration, proliferation and differentiation. Involved in vascular development. May be involved in the mechanism of contact inhibition of cell growth. Regulator of macrophage adhesion and spreading. Positively affects cell-matrix adhesion. Positive regulator of platelet activation and thrombosis. Negative regulator of cell proliferation. Negative regulator of PDGF-stimulated cell migration; through dephosphorylation of PDGFR. Positive regulator of endothelial cell survival, as well as of VEGF-induced SRC and AKT activation; through KDR dephosphorylation. Negative regulator of EGFR signaling pathway; through EGFR dephosphorylation. Enhances the barrier function of epithelial junctions during reassembly. Negatively regulates T-cell receptor (TCR) signaling. Upon T-cell TCR activation, it is up-regulated and excluded from the immunological synapses, while upon T-cell-antigen presenting cells (APC) disengagement, it is no longer excluded and can dephosphorylate PLCG1 and LAT to down-regulate prolongation of signaling.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	149 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ptprj protein tyrosine phosphatase, receptor type, J [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ptprj
Synonyms	Ptprj; protein tyrosine phosphatase, receptor type, J; By; RP; BET; Byp; Scc; DEP-; Scc-; Scc1; CD148; DEP-1; Ptpb2; RPTPJ; Scc-1; R-PTP-J; AI450271; PTPbeta2; R-PTP-eta; receptor-type tyrosine-protein phosphatase eta; HPTP beta-like tyrosine phosphatase; colon tumor susceptibility 1; protein-tyrosine phosphatase eta; susceptibility to colon cancer 1; EC 3.1.3.48
Gene ID	19271
mRNA Refseq	NM_008982
Protein Refseq	NP_033008

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID

Q64455

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA