

## Recombinant Mouse Ptpnj Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse protein tyrosine phosphatase, receptor type, J (Ptpnj), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>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.</p>

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Ptpnj protein tyrosine phosphatase, receptor type, J [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Ptpnj</a>
<b>Synonyms</b>	Ptpnj; 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
<b>Gene ID</b>	<a href="#">19271</a>
<b>mRNA Refseq</b>	<a href="#">NM_008982</a>
<b>Protein Refseq</b>	<a href="#">NP_033008</a>

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