Recombinant Mouse Ptprb Protein, Myc/DDK-tagged

Cat. No. Ptprb-5244M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length protein tyrosine phosphatase, receptor type, B (Ptprb), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays an important role in blood vessel remodeling and angiogenesis. Not necessary for the initial formation of blood vessels, but is essential for their maintenance and remodeling. Can induce dephosphorylation of TEK/TIE2, CDH5/VE-cadherin and KDR/VEGFR-2. Regulates angiopoietin-TIE2 signaling in endothelial cells. Acts as a negative regulator of TIE2, and controls TIE2 driven endothelial cell proliferation, which in turn affects blood vessel remodeling during embryonic development and determines blood vessel size during perinatal growth. Essential for the maintenance of endothelial cell contact integrity and for the adhesive function of VE-cadherin in endothelial cells and this requires the presence of plakoglobin.
Molecular Mass	224.9 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.

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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	Ptprb protein tyrosine phosphatase, receptor type, B [Mus musculus (house mouse)]
Official Symbol	Ptprb
Synonyms	PTPRB; protein tyrosine phosphatase, receptor type, B; receptor-type tyrosine-protein phosphatase beta; R-PTP-beta; protein-tyrosine phosphatase beta; vascular endothelial protein tyrosine phosphatase; Ptpz; Rptpb; Veptp; VE-PTP; C130094E24; 3230402H02Rik
Gene ID	19263
mRNA Refseq	NM_029928
Protein Refseq	NP_084204
UniProt ID	B2RU80

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