

Recombinant Human PTPRB Protein (1643-1997 aa), His-tagged

Cat. No. PTPRB-1496H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPRB Protein (1643-1997 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Partial.
Species	Human
Source	Yeast
ProteinLength	1643-1997 aa
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 (By similarity).
Form	Tris-based buffer, 50% glycerol
Molecular Mass	43.4 kDa

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AA Sequence	RQKVSHGRERPSARLSIRDRPLSVHLNLGQKGNRKTSPIKINQFEGHFMKLQAD SNYLLSKEYEELKDVGRNQSCDIALLPENRGKNRYNNILPYDATRVKLSNVDDDDPCS DYINASYIPGNNFRREYIVTQGPLPGTKDDFWKMVWEQNVHNIVMVTQCVEKGRVK CDHYWPADQDSLYYGDLILQMLSESVLPEWTIREFKICGEEQLDAHRLIRHFHYTVW PDHGVPETTQSLIQFVRTVRDYINRSPGAGPTVVHCSAGVGRTGTFIALDRILQQLD SKDSVDIYGAVHDLRLHRVHVMVQTECQYVYLHQCVRDVLRARKLRSEQENPLFPIY ENVNPEYHRDPVYSRH
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

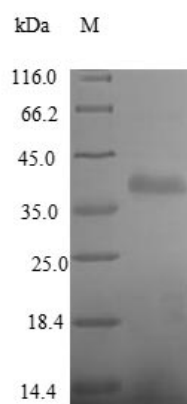
Gene Name	PTPRB protein tyrosine phosphatase, receptor type, B [Homo sapiens]
Official Symbol	PTPRB
Synonyms	PTPRB; PTPB; VE-PTP; HPTPB; VEPTP; HPTP-BETA; R-PTP-BETA; FLJ44133; MGC59935; MGC142023; DKFZp686E2262; DKFZp686H15164;
Gene ID	5787

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mRNA Refseq	NM_001109754
Protein Refseq	NP_001103224
MIM	176882
UniProt ID	P23467



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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