

Recombinant Homo sapiens Receptor-type tyrosine-protein phosphatase beta

Catalog No: #AP72742

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Package Size: #AP72742-1 20ug #AP72742-2 100ug #AP72742-3 1mg

Description

Product Name	Recombinant Homo sapiens Receptor-type tyrosine-protein phosphatase beta
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1643-1997aaSequence Info:Cytoplasmic Domain
Other Names	Vascular endothelial protein tyrosine phosphatase Short name: VE-PTP
Accession No.	P23467
Uniprot	P23467
GeneID	5787;
Calculated MW	43.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	RQKVSHGRERPSARLSIRDRPLSVHLNLGQKGNRKTSCPIKINQFEGHFMKLQADSNYLLSKEYEELKDVGR NQSCDIALLPENRGKNRYNNILPYDATRVKLSNVDDDDPCSDYINASYIPGNFRREYIVTQGPLPGTKDDFWK MVWEQNVHNIVMTQCVEKGRVKCDHYWPADQDSLYYGDLILQMLSESVLPEWTIREFKICGEEQLDAHRLI RHFHYTVWPDHGVPETTQSLIQFVRTVRDYINRSPGAGPTVVHCSAGVGRGTGFIALDRILQQLDSDKSDVDIYG AVHDLRLHRVHMVQTECQYVYLHQCVRDVLRARKLRSEQENPLFPIYENVNPEYHRDPVYSRH
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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).

References

"The full-ORF clone resource of the German cDNA consortium."Bechtel S., Rosenfelder H., Duda A., Schmidt C.P., Ernst U., Wellenreuther R., Mehrle

Note: This product is for in vitro research use only