

Anti-PTPRB antibody



Description	Unconjugated Rabbit polyclonal to PTPRB
Model	STJ191297
Host	Rabbit
Reactivity	Human
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human PTPRB protein.
Immunogen Region	280-360aa
Gene ID	5787
Gene Symbol	PTPRB
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	PTPRB Polyclonal Antibody detects endogenous levels of protein.
Purification	PTPRB antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Receptor-type tyrosine-protein phosphatase beta Protein-tyrosine phosphatase beta R-PTP-beta Vascular endothelial protein tyrosine phosphatase VE-PTP
Molecular Weight	219 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:9665OMIM:176882
Alternative Names	Receptor-type tyrosine-protein phosphatase beta Protein-tyrosine phosphatase beta R-PTP-beta Vascular endothelial protein tyrosine phosphatase VE-PTP
Function	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 .
Cellular Localization	Membrane