

PTPRB Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3252a

Specification

PTPRB Antibody (internal region) - Product Information

Application	E
Primary Accession	P23467
Other Accession	NP_001103224.1 , NP_002828.3 , 5787 , 314843 (rat)
Predicted Host	Human, Rat, Pig, Dog, Cow
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	224301

PTPRB Antibody (internal region) - Additional Information

Gene ID 5787

Other Names

Receptor-type tyrosine-protein phosphatase beta, Protein-tyrosine phosphatase beta, R-PTP-beta, 3.1.3.48, Vascular endothelial protein tyrosine phosphatase, VE-PTP, PTPRB, PTPB

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PTPRB Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PTPRB Antibody (internal region) - Protein Information

Name PTPRB

Synonyms PTPB

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 (By similarity).

Cellular Location

Membrane; Single-pass type I membrane protein

PTPRB Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PTPRB Antibody (internal region) - Images**PTPRB Antibody (internal region) - Background**

This antibody is expected to recognize both reported isoforms (NP_001103224.1; NP_002828.3).

PTPRB Antibody (internal region) - References

VE-PTP controls blood vessel development by balancing Tie-2 activity. Winderlich M, Keller L, Cagna G, Broermann A, Kamenyeva O, Kiefer F, Deutsch U, Nottebaum AF, Vestweber D, The Journal of cell biology 2009 May 185 (4): 657-71. PMID: 19451274