abcam

Product datasheet

Anti-VE-PTP antibody [122.2] ab31654

Overview

Product name	Anti-VE-PTP antibody [122.2]
Description	Mouse monoclonal [122.2] to VE-PTP
Host species	Mouse
Specificity	This antibody is specific for Receptor Tyrosine Phosphatase Beta (phosphacan).
Tested applications	**Suitable for:** WB, ICC/IF, ICC, IP
Species reactivity	**Reacts with:** Rat
Immunogen	Tissue, cells or virus corresponding to Rat VE-PTP. (Embryonic rat brain proteoglycans).
General notes	Protein previously labeled as PTPRB.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Constituent: PBS
Purification notes	Concentrated antibody. This antibody was grown in protein free medium, then concentrated snd dialysed against PBS.
Clonality	Monoclonal
Clone number	122.2
Isotype	IgM

Applications

Our Abpromise guarantee covers the use of **ab31654** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/100 - 1/2500. Predicted molecular weight: 224 kDa.
ICC/IF		Use at an assay dependent dilution.

Application	Abreviews	Notes
ICC		Use at an assay dependent dilution.
IP		Use at an assay dependent dilution.

Target

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.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Receptor class 3 subfamily. Contains 17 fibronectin type-III domains. Contains 1 tyrosine-protein phosphatase domain.
Cellular localization	Membrane.

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