

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: ICC, IP, ICC/IF, WB
Species reactivity	Reacts with: Rat
Immunogen	Tissue, cells or virus corresponding to Rat VE-PTP. (Embryonic rat brain proteoglycans).
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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 and dialysed against PBS.
Clonality	Monoclonal
Clone number	122.2
Isotype	IgM

Applications

The **Abpromise guarantee** 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
ICC		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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