

Anti-Angiopoietin 1/ANGPT1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9125-Fluoro488

About ANGPT1

Angiopoietin 1 is a type of angiopoietin and is encoded by the gene ANGPT1. Angiopoietins are proteins with important roles in vascular development and angiogenesis. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. Angiopoietin 1 is mapped to 8q23.1. The protein encoded by this gene is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Angiopoietin-1 seems to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme.

Overview

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| Product Name | Anti-Angiopoietin 1/ANGPT1 Antibody Picoband® Fluoro488 Conjugated |
| Reactive Species | Human |
| Application | Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | Q15389 |

Technical Details

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| Immunogen | E.coli-derived human Angiopoietin 1 recombinant protein (Position: H16-N350). Human Angiopoietin 1 shares 96% amino acid (aa) sequence with both mouse and rat Angiopoietin 1. |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |
| Conjugate | Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm |

Suggested Dilutions

Optimal dilutions should be determined by end users.

3 Publications Citing This Product

1. PubMed ID: 23554691, Hypoxic response elements and Tet-On advanced double-controlled systems regulate hVEGF165 and angiopoietin-1 gene expression in vitro

2. PubMed ID: 23026853, Huang S, Yang N, Liu Y, Gao J, Huang T, Hu L, Zhao J, Li Y, Li C, Zhang X. Int J Mol Med. 2012 Dec;30(6):1410-6. Doi: 10.3892/ijmm.2012.1147. Epub 2012 Oct 1. Grape Seed Proanthocyanidins Inhibit Colon Cancer-Induced Angiogenesis Throu...

3. PubMed ID: 24979385, Sun F, Wang W, Cheng H, Wang Y, Li L, Xue J, Wang X, Ai H, Zhang L, Xu J, Wang X, Ji X. Plos One. 2014 Jun 30;9(6):E101194. Doi: 10.1371/Journal.Pone.0101194. Ecollection 2014. Morroniside Improves Microvascular Functional Integrity Of The ...

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