

Anti-Angiopoietin 1/ANGPT1 Antibody Picoband® Fluoro550 Conjugated

Catalog Number: PB9125-Fluoro550

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

Product Name	Anti-Angiopoietin 1/ANGPT1 Antibody Picoband® Fluoro550 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

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	Fluoro550 Excitation Wavelength: 562 nm Emission Wavelength: 576 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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