

Anti-Angiopietin-1/ANGPT1 Antibody Picoband®

Catalog Number: A00853

About ANGPT1

Angiopietin 1 is a type of angiopietin and is encoded by the gene ANGPT1. Angiopietins are proteins with important roles in vascular development and angiogenesis. All angiopietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. Angiopietin 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. Angiopietin-1 seems to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme.

Overview

Product Name	Anti-Angiopietin-1/ANGPT1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Angiopietin-1/ANGPT1 Antibody Picoband® catalog # A00853. Tested in ELISA, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q15389

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Angiopietin-1, different from the related mouse sequence by three amino acids, and from the related rat sequence by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	ELISA, 0.1-0.5ug/ml, - Western blot, 0.1-0.5ug/ml, Human

Anti-Angiopoietin-1/ANGPT1 Antibody Picoband® (A00853) Images

100KD—
70KD—
55KD—
35KD—
25KD—
15KD—

Western blot analysis of Angiopoietin-1 using anti-Angiopoietin-1 antibody (A00853). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. lane 1: recombinant human ANGPT1 protein 1ng After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Angiopoietin-1 antigen affinity purified polyclonal antibody (Catalog # A00853) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Angiopoietin-1 at approximately 70KD. The expected band size for Angiopoietin-1 is at 57KD.

5 Publications Citing This Product

1. PubMed ID: 10.1016/j.transproceed.2008.07.121, Expressions of Angiopoietin-1, Angiopoietin-2, and Tie2 and Their Roles in Rat Renal Allografts With Chronic Allograft Nephropathy
2. PubMed ID: 10.1016/j.transproceed.2008.08.047, Rapamycin and Cyclosporine Have Different Effects on Expression of ang-1 and ang-2 and Tie2 in Rat Renal Allograft With Chronic Allograft Nephropathy
3. PubMed ID: 23554691, Hypoxic response elements and Tet-On advanced double-controlled systems regulate hVEGF165 and angiopoietin-1 gene expression in vitro

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