Product datasheet

Anti-Angiopoietin-1/ANGPT1 Antibody

Catalog Number: *BA0188*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-Angiopoietin-1/ANGPT1 Antibody
Gene Name	ANGPT1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Angiopoietin 1, different from the related mouse sequence by two amino acids, and different from the related rat sequence by only one amino acid.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	57 kDa/70 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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. 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. Endothelial Tie2/Tek ligands angiopoietin-1(ANGPT1) and angiopoietin-2(ANGPT2): regional localization of the human genes to 8q22.3-q23 and 8p23.

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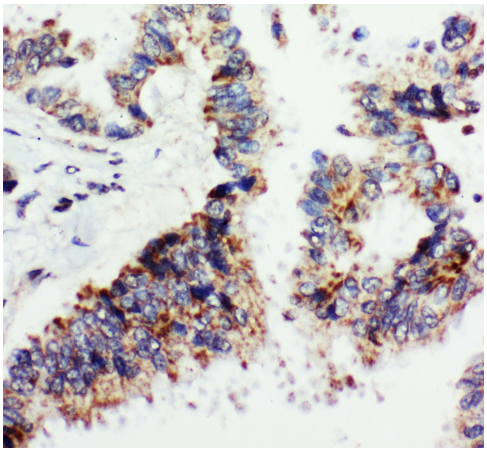
Reference

Anti-Angiopoietin-1/ANGPT1 Antibody被引用在6文献中。

Selected Validation Data

Western blot analysis of Angiopoietin-1/ANGPT1 using anti-Angiopoietin-1/ANGPT1 antibody (BA0188). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human SMMC whole cell lysates,
Lane 2: human HT1080 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Angiopoietin-1/ANGPT1 antigen affinity purified polyclonal antibody (BA0188) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Angiopoietin-1/ANGPT1 at approximately 57 kDa/70 kDa. The expected band size for Angiopoietin-1/ANGPT1 is at 58 kDa.



IHC analysis of Angiopoietin-1/ANGPT1 using anti-Angiopoietin-1/ANGPT1 antibody (BA0188).
Angiopoietin-1/ANGPT1 was detected in a paraffin-embedded section of human lung cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Angiopoietin-1/ANGPT1 Antibody (BA0188) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.