Product Information Sheet

Polyclonal Anti- Angiopoietin 1, *ANG-1*

Catalogue No. PA1333

Lot No. 0131012063399

Ig type rabbit IgG

Size 100μg/vial

Specificity

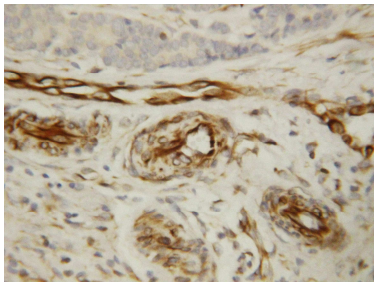
Human.

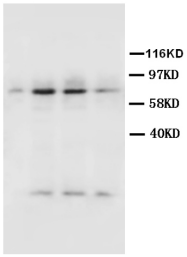
No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)





Lane 1 : Recombinant Human ANG1 Protein 10ng
Lane 2 : Recombinant Human ANG1 Protein 10ng+ colo320 Whole Cell Lysate
Lane 3 : Recombinant Human ANG1 Protein 5ng+ colo320 Whole Cell Lysate
Lane 4 : colo320 Whole Cell Lysate

Immunogen

A synthetic peptide corresponding to a sequence at the middle region of human ANG1 (278-295 aa), different from the mouse sequence by two amino acids.

Purity

Immunogen affinity purified.

Application

	Concen-tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1μg/ml	Hu	-	-
IHC-P	1μg/ml	Hu	-	By Heat
IHC-F	-	-	-	-
ICC	-	-	-	-

WB: The detection limit for ANG-1 is approximately 10ng/lane under non-reducing and reducing conditions.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution

0.2ml of distilled water will yield a concentration of 500μg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

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BACKGROUND

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.[1]Angiopoietin-1 seems to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme.[2] Endothelial Tie2/Tek ligands angiopoietin-1 (ANGPT1) and angiopoietin-2 (ANGPT2): regional localization of the human genes to 8q22.3-q23 and 8p23.[3]

REFERENCE

1、"Entrez Gene: ANGPT1 angiopoietin 1". Angiopoietin-1 seems to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme.

2、Suri, C., Jones, P. F., Patan, S., Bartunkova, S., Maisonpierre, P. C., Davis, S., Sato, T. N., Yancopoulos, G. D. Requisite role of angiopoietin-1, a ligand for the TIE2 receptor, during embryonic angiogenesis. Cell 87: 1171-1180, 1996.

3、Cheung, A. H., Stewart, R. J., Marsden, P. A. Endothelial Tie2/Tek ligands angiopoietin-1 (ANGPT1) and angiopoietin-2 (ANGPT2): regional localization of the human genes to 8q22.3-q23 and 8p23. Genomics 48: 389-391, 1998.

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