

Product Datasheet

Angiopoietin-1 Antibody NB600-629

Unit Size: 0.2 ml

Store at -20C. Avoid freeze-thaw cycles.

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NB600-629

Angiopoietin-1 Antibody

Product Information	
Unit Size	0.2 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	Serum
Purity	Unpurified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Host	Rabbit
Gene ID	284
Gene Symbol	ANGPT1
Species	Human, Mouse
Reactivity Notes	Partially cross reactivity is noted with human angiopoietin.
Specificity/Sensitivity	This antiserum is directed against mouse angiopoietin 1 and shows no reactivity with mouse angiopoietin 2. A 57 kDa band is detected when assayed by immunoblot. This reagent cross-reacts with human angiopoietin 1. Both Ang-1 and Ang-2 proteins have predicted molecular weights of approximately 57 kDa and appear on western blots close to their predicted molecular weights. In some instances additional bands may be seen at approximately 75 kDa which represent highly glycosylated forms of the protein that migrate at a higher apparent molecular weight.
Immunogen	This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide N-Q-R-R-N-P-E-N-G-G-R-R-Y-N-R-I-Q-H-G-Q corresponding to a region (aa 21-40) near the N-terminus of mouse angiopoietin 1 protein conjugated to KLH using maleimide. A residue of cysteine was added to the amino terminal end to facilitate coupling.
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:2000, ELISA 1:5000-1:25000, Immunohistochemistry 1:200-1:800, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:200-1:800
Application Notes	Suitable for western blotting, Immunohistochemistry and other antibody based assays. A 1:500 dilution is recommended for western blotting. The reaction of this antiserum directly with cell supernatants may result in high background Due to reactivity of components in the serum. This can be alleviated by first immunoprecipitating the antibody:antigen complex and then detecting the antigen. This method results in a very clean and strong signal. Both Ang-1 and Ang-2 proteins have predicted molecular weights of approximately 57 kDa and appear on western blots close - their predicted molecular weights. In some instances additional bands may be seen at approximately 75 kDa which represent highly glycosylated forms of the protein that migrate at a higher apparent molecular weight.

Publications

Yin GN, Jin HR, Choi MJ et al. Pericyte-Derived Dickkopf2 Regenerates Damaged Penile Neurovasculature Through an Angiopoietin-1-Tie2 Pathway. *Diabetes*. 2018-03-20 [PMID: 29559443] (WB, Mouse)

Yin GN, Kim WJ, Jin HR et al. Nerve Injury-Induced Protein 1 (Ninjurin-1) Is a Novel Therapeutic Target for Cavernous Nerve Injury-Induced Erectile Dysfunction in Mice. *J Sex Med* 2013-04-02 [PMID: 23551591]

Chade, A R, Krier, J D, Textor, S C, Lerman, A, Lerman, L O. Endothelin-A Receptor Blockade Improves Renal Microvascular Architecture Function in Experimental Hypercholesterolemia, . 17, 3394-3403. 2006-01-01 [PMID: 17082239]





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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