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Datasheet for ABIN95109 anti-Angiopoietin 1 antibody (AA 15-45)

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3 Publications



Overview

Quantity:	200 µL
Target:	Angiopoietin 1 (ANGPT1)
Binding Specificity:	AA 15-45
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiopoietin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Purpose:	Angiopoietin 1 Antibody
Immunogen:	Immunogen: This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide corresponding to a N-terminus region near aa 15-45 of mouse angiopoietin 1 protein conjugated to KLH using maleimide. A residue of cysteine was added to the amino terminal end to facilitate coupling.
	Immunogen Type: Conjugated Peptide
Cross-Reactivity (Details):	Anti-Angiopoietin 1 is directed against mouse angiopoietin-1 and shows no reactivity with mouse angiopoietin-2. This reagent cross-reacts with human angiopoietin 1.
Characteristics:	Synonyms: rabbit anti-Angiopoietin 1 Antibody, rabbit anti-ANG1 antibody, AGP 1 antibody, AGP1 antibody, AGP1 antibody, ANG1 antibody, Angiopoietin1 antibody, ANGPT 1 antibody,

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Product Details

	ANGPT1 antibody, KIAA0003 antibody
Sterility:	Sterile filtered
Target Details	
Target:	Angiopoietin 1 (ANGPT1)
Alternative Name:	Angpt1 (ANGPT1 Products)
Background:	Background: Anti-Antiopoietin-1 Antibody, which recognizes Angiopoietin-1 (Ang-1), has
	importance in the development of the endothelium by regulating tyrosine phosphorylation of
	the membrane receptor Tie-2/Tek. Ang-1 binding to Tie-2/Tek causes phosphorylation of the
	receptor. Ang-2 competes for this binding, and thus blocks receptor phosphorylation. Ang-1 has
	a potential fibrinogen-like domain at the carboxyl terminus and coiled-coil regions in the amino
	terminus. Ang-1 is prominently expressed in the myocardium of atrium and ventricle,
	mesenchymal and smooth muscle cells surrounding most blood vessels, and lung. In the adult,
	Ang-1 is also expressed in the heart and liver. Anti-Antiopoietin-1 Antiserum antibody is suitable
	for cardiovascular research.
Gene ID:	11600, 46048213
UniProt:	008538
Pathways:	RTK Signaling, Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Immunohistochemistry Dilution: 1:200-1:800
	Application Note: Anti-Antiopoietin-1 Antiserum has been tested in ELISA, western blot,
	immunohistochemistry, and immunofluorescence and is suitable for 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 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.
	Western Blot Dilution: 1:500-1:2,000
	Immunoprecipitation Dilution: User Optimized

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Application Details	
	ELISA Dilution: 1:5,000 - 1:25,000
	Other: User Optimized
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	85 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
	Stabilizer: None
	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended
	storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after
	standing at room temperature. This product is stable for several weeks at 4° C as an undiluted
	liquid. Dilute only prior to immediate use.
Expiry Date:	12 months
Publications	
Product cited in:	Egginton, Hussain, Hall-Jones, Chaudhry, Syeda, Glen: "Shear stress-induced angiogenesis in
	mouse muscle is independent of the vasodilator mechanism and quickly reversible." in: Acta
	physiologica (Oxford, England), Vol. 218, Issue 3, pp. 153-166, (2017) (PubMed).
	Dallabrida, Ismail, Pravda, Parodi, Dickie, Durand, Lai, Cassiola, Rogers, Rupnick: "Integrin
	binding angiopoietin-1 monomers reduce cardiac hypertrophy." in: FASEB journal : official
	publication of the Federation of American Societies for Experimental Biology, Vol. 22, Issue 8,
	pp. 3010-23, (2008) (PubMed).
	Câmpean, Karpe, Haas, Atalla, Peters, Rupprecht, Liebner, Acker, Plate, Amann: "Angiopoietin 1
	and 2 gene and protein expression is differentially regulated in acute anti-Thy1.1
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Images



Western Blotting

Image 1. Rabbit anti-Ang-1 was used at a 1:500 dilution to detect mouse Ang-1 by western blot against supernatants of mouse angiopoietin-expressing endothelial cells. Lane 1 - wt endothelial cells. Lane 2 - mouse Ang-1 (clone 1-8) expressing cells. Lane 3 - mouse Ang-1 (clone 1-15) expressing cells. Lane 4 - mouse Ang-2 (clone 2-9) expressing cells. Approximately 20 µg of each lysate was used for 10% SDS-PAGE. Immunoprecip-itation preceded the reaction with primary antibody at room temperature for 1 h. After subsequent washing, a 1:5,000 dilution of HRP conjugated Gt-a-Rabbit IgG preceded color development.

Immunohistochemistry

Image 2. anti-ANG1 antibody was diluted 1:500 to detect ANG1 in human lung tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.



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