

Rabbit ANG Polyclonal Antibody | anti-ANG antibody

ANG Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326218	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

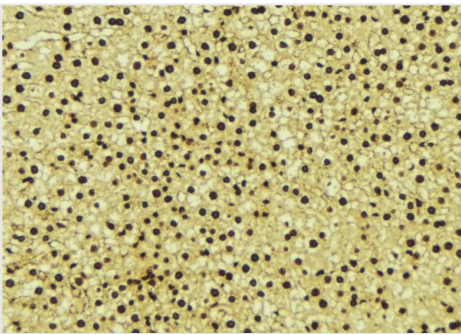
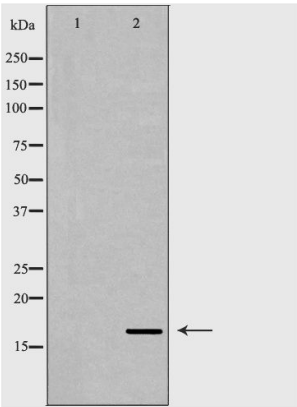
PRODUCT SYNONYMS

ANG; Polyclonal Antibody; ANG Antibody; ALS9; AMYOTROPHIC LATERAL SCLEROSIS; ANG 1; ANG I; ANG1; ANGI; ANGI_HUMAN; Angiogenin; Angiogenin ribonuclease RNase A family; 5; Epididymis luminal protein 168; HEL168; MGC22466; MGC71966; Ribonuclease 5; Ribonuclease RNase A Family 5; RNase 5; RNASE4; RNASE5; anti-ANG antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ANG antibody detects endogenous levels of total ANG
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	147
Applicable Applications for anti-ANG antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ANG
Subcellular Location	Secreted.
Tissue Specificity	Expressed predominantly in the liver. Also detected in endothelial cells and spinal cord neurons.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326218 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of mouse liver, using ANG antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ANG antibody

Description: Angiopoietins are a family of Tie receptor ligands. There are four angiopoietins discovered so far: angiopoietins 1, 2, 3 and 4 (Ang1, 2, 3, and 4) (1-3). Ang1 binds to the Tie-2 receptor and leads to its autophosphorylation and subsequent activation of downstream signaling pathways. It plays an important role in blood vessel formation, maturation and subsequent stabilization (1, 4, 5). Ang2 is an endothelium-specific growth factor that functions as an antagonist to Ang1, promotes vascular associated proinflammatory function, destabilizes quiescent endothelium, leads to vascular leakage and vascular destabilization and remodeling (2, 6, 7). Ang2 is selectively expressed in many tumor tissues where, combined with other growth factors such as VEGF, it can promote vascular remodeling, angiogenesis and inflammation (7-9).

Function: Binds to actin on the surface of endothelial cells; once bound, angiogenin is endocytosed and translocated to the nucleus. Stimulates ribosomal RNA synthesis including that containing the initiation site sequences of 45S rRNA. Cleaves tRNA within anticodon loops to produce tRNA-derived stress-induced fragments (tiRNAs) which inhibit protein synthesis and triggers the assembly of stress granules (SGs). Angiogenin induces vascularization of normal and malignant tissues. Angiogenic activity is regulated by interaction with RNH1 in vivo.

Subunit Structure: Homodimer (PubMed:25372031). Interacts with and forms a tight 1:1 complex with RNH1. Dimerization of two such complexes may occur.

Similarity: Belongs to the pancreatic ribonuclease family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148277046
NCBI GeneID	283
NCBI Accession #	NP_001091046.1
NCBI GenBank Nucleotide #	NM_001097577.2
UniProt Accession #	P03950; Q05CV1; Q53X86; Q6P5T2; Q8WXE7
Molecular Weight	Observed: 17 kDa Predicted: 17 kDa
NCBI Official Full Name	angiogenin
NCBI Official Synonym Full Names	angiogenin
NCBI Official Symbol	ANG
NCBI Official Synonym Symbols	ALS9; RAA1; HEL168; RNASE4; RNASE5
NCBI Protein Information	angiogenin
UniProt Protein Name	Angiogenin

UniProt Gene Name	ANG
UniProt Synonym Gene Names	RNASE5; RNase 5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ang-antibody-immunohistochemistry-western-blot-elisa/326218>