

Angiopoietin 2 Polyclonal Antibody | anti-ANGPT2 antibody

Anti-Angiopoietin 2 Antibody

CATALOG # AAA46236	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry
------------------------------	--	---

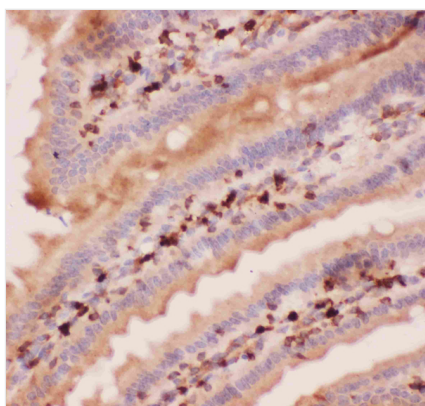
PRODUCT SYNONYMS

Angiopoietin 2; Polyclonal Antibody; Anti-Angiopoietin 2 Antibody; Angiopoietin-2; AGPT 2; Agpt2; ANG 2; ANG-2; ANG2; Angiopoietin 2a; Angiopoietin 2B; Angiopoietin2; ANGPT2_HUMAN; ANGPT 2; ANGPT2; Tie2 ligand; angiopoietin 2; anti-ANGPT2 antibody

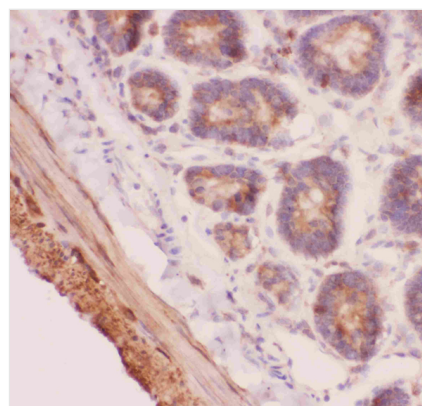
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	495
Applicable Applications for anti-ANGPT2 antibody	IHC (Immunohistochemistry)
Immunogen	E Coli-derived human Angiopoietin 2 recombinant protein (Position: Y19-N348). Human Angiopoietin 2 shares 84% and 85% amino acid (aa) sequences identity with mouse and rat Angiopoietin 2, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

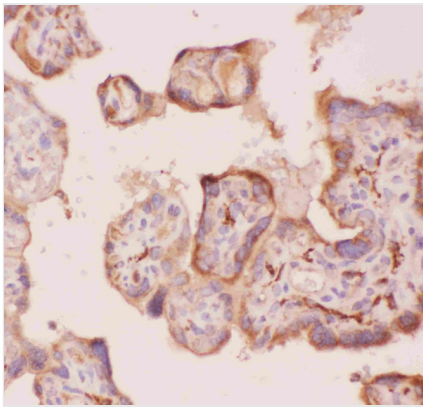
IMAGES



IHC (Immunohistochemistry)
Anti-Angiopoietin 2 Picoband antibodyIHC(P): Mouse Intestine Tissue



IHC (Immunohistochemistry)
Anti-Angiopoietin 2 Picoband antibodyIHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)
Anti-Angiopoietin 2 Picoband antibodyIHC(P): Human Placenta Tissue

ADDITIONAL INFORMATION

Related Product Information for anti-ANGPT2 antibody	Description: Rabbit IgG polyclonal antibody for Angiopoietin-2(ANGPT2) detection. Tested with IHC-P in Human;Mouse;Rat. Background: ANGPT2, also known as ANG2 or Angiopoietin 2, is a protein that in humans is encoded by the ANGPT2 gene. It is mapped to 8p23.1. ANGPT2 is a naturally occurring antagonist of ANG1 that competes for binding to the TIE2 receptor and blocks ANGPT1-induced TIE2 autophosphorylation during vasculogenesis. The encoded protein disrupts the vascular remodeling ability of ANGPT1 and may induce endothelial cell apoptosis. ANGPT2 was significantly increased in plasma and alveolar edema fluid in adults with acute lung injury compared to controls or patients with hydrostatic pulmonary edema, tracheal. ANGPT2 was also significantly increased in neonates with respiratory distress syndrome who developed bronchopulmonary edema. It is also a mediator of epithelial necrosis with an important role in hyperoxic acute lung injury and pulmonary edema.
References	1. Bhandari, V., Choo-Wing, R., Lee, C. G., Zhu, Z., NedreLOW, J. H., Chupp, G. L., Zhang, X., Matthay, M. A., Ware, L. B., Homer, R. J., Lee, P. J., Geick, A., de Fougerolles, A. R., Elias, J. A. Hyperoxia causes angiopoietin 2-mediated acute lung injury and necrotic cell death. Nature Med. 12: 1286-1293, 2006. 2. Kim, I., Kim, J.-H., Ryu, Y. S., Jung, S. H., Nah, J. J., Koh, G. Y. Characterization and expression of a novel alternatively spliced human angiopoietin-2. J. Biol. Chem. 275: 18550-18556, 2000. 3. Cheung AH, Stewart RJ, Marsden PA (Jun 1998). "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 (3): 389-91. 4. Fiedler, Ulrike; Krissl Tanja, Koidl Stefanie, Weiss Cornelia, Koblizek Thomas, Deutsch Urban, Martiny-Baron Georg, Marmé Dieter, Augustin Hellmut G (Jan 2003). "Angiopoietin-1 and angiopoietin-2 share the same binding domains in the Tie-2 receptor involving the first Ig-like loop and the epidermal growth factor-like repeats". J. Biol. Chem. (United States) 278 (3): 1721-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	169646749
NCBI GeneID	285
NCBI Accession #	NP_001112359.1
NCBI GenBank Nucleotide #	NM_001118887.1
UniProt Accession #	O15123; Q9NRR7; Q9P2Y7; A0AV38; A8K205; B7ZLM7
Molecular Weight	56,848 Da
NCBI Official Full Name	angiopoietin-2 isoform b
NCBI Official Synonym Full Names	angiopoietin 2
NCBI Official Symbol	ANGPT2
NCBI Official Synonym Symbols	ANG2; AGPT2
NCBI Protein Information	angiopoietin-2

UniProt Protein Name	Angiopoietin-2
UniProt Gene Name	ANGPT2
UniProt Synonym Gene Names	ANG-2
UniProt Entry Name	ANGP2_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/angiopoietin-2-antibody-immunohistochemistry-elisa/46236>