

Datasheet for ABIN5518732

anti-Angiopoietin 2 antibody (AA 180-283)**2** Images**3** Publications[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Angiopoietin 2 (ANGPT2)
Binding Specificity:	AA 180-283
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiopoietin 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Angiopoietin-2(ANGPT2) detection. Tested with WB, IHC-P, ELISA in Human.
Immunogen:	E. coli-derived human Angiopoietin-2 recombinant protein (Position: E180-D283). Human Angiopoietin-2 shares 75% and 77.9% amino acid (aa) sequence identity with mouse and rat Angiopoietin-2, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Angiopoietin-2(ANGPT2) detection. Tested with WB, IHC-P, ELISA in Human.</p> <p>Gene Name: angiopoietin 2</p> <p>Protein Name: Angiopoietin-2</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Angiotensin 2 (ANGPT2)

Alternative Name: ANGPT2 ([ANGPT2 Products](#))

Background: ANGPT2, also known as ANG2 or Angiotensin 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.

Synonyms: ANG 2 | ANG2 | ANG-2 | Angiotensin 2 | Angiotensin2 | Angiotensin-2 | Angiotensin2(ANG2) | Angiotensin-2(ANG-2) | ANGP2 | ANGPT2 | O15123

Gene ID: 285

UniProt: [O15123](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Human

Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg 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

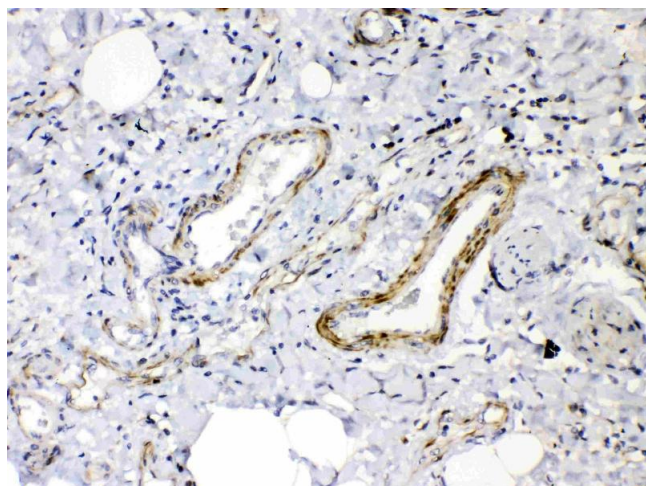
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Huang, Pan, Yu, Guo, Wang, Zhang, Wang, Gao: "Beneficial therapeutic effect of Chinese Herbal Xinji'erkang formula on hypertension-induced renal injury in the 2-kidney-1-clip hypertensive rats." in: **African journal of traditional, complementary, and alternative medicines : AJTCAM**, Vol. 11, Issue 5, pp. 16-27, (2015) ([PubMed](#)).

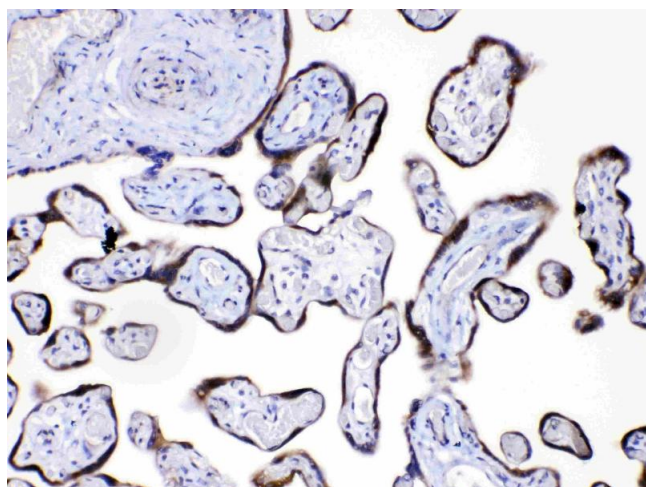
Bai, Li, Tian, Zhou: "Antiangiogenic treatment diminishes renal injury and dysfunction via regulation of local AKT in early experimental diabetes." in: **PLoS ONE**, Vol. 9, Issue 4, pp. e96117, (2014) ([PubMed](#)).

Li, Fan, Song, Zhang, Chen, Li, Mi, Ma, Song, Tao, Li: "Expression of angiopoietin-2 and vascular endothelial growth factor receptor-3 correlates with lymphangiogenesis and angiogenesis and affects survival of oral squamous cell carcinoma." in: **PLoS ONE**, Vol. 8, Issue 9, pp. e75388, (2013) ([PubMed](#)).



Immunohistochemistry

Image 1. Angiopoietin-2 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti-Angiopoietin-2 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. Angiopoietin-2 was detected in paraffin-embedded sections of human placenta tissues using rabbit anti-Angiopoietin-2 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).