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Datasheet for ABIN3043725

anti-Angiopoietin 2 antibody (AA 19-348)

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Overview

| | |
|----------------------|---|
| Quantity: | 100 µg |
| Target: | Angiopoietin 2 (ANGPT2) |
| Binding Specificity: | AA 19-348 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Angiopoietin 2 antibody is un-conjugated |
| Application: | Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

| | |
|-----------------------------|---|
| Purpose: | Rabbit IgG polyclonal antibody for Angiopoietin-2(ANGPT2) detection. Tested with IHC-P in Human,Mouse,Rat. |
| 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. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross reactivity with other proteins. |
| Characteristics: | Rabbit IgG polyclonal antibody for Angiopoietin-2(ANGPT2) detection. Tested with IHC-P in Human,Mouse,Rat. Gene Name: angiopoietin 2 Protein Name: Angiopoietin-2 |

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: AGPT 2 antibody|Agpt2 antibody|ANG 2 antibody|ANG-2 antibody|ANG2 antibody|ANG2 antibody|Angiotensin 2a antibody|Angiotensin 2B antibody|Angiotensin-2 antibody|Angiotensin2 antibody|ANGP2_HUMAN antibody|ANGPT 2 antibody|ANGPT2 antibody|ANGPT2 antibody|Tie2 ligand antibody

Gene ID: 285

UniProt: [O15123](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, 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.

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 ABIN921231 in IHC(P).

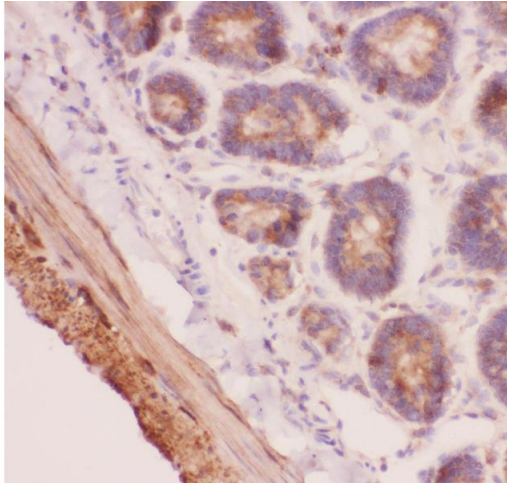
Restrictions: For Research Use only

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 Na ₂ HPO ₄ , 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. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| 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. |

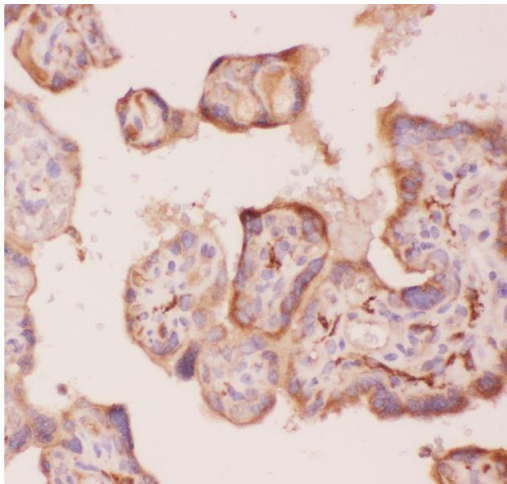
Publications

| | |
|-------------------|---|
| Product cited in: | <p>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).</p> <p>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).</p> <p>Li, Fan, Song, Zhang, Chen, Li, Mi, Ma, Song, Tao, Li: "Expression of angiotensin-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).</p> |
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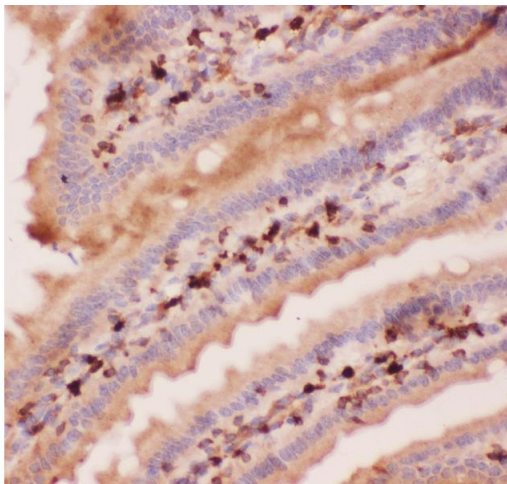
Immunohistochemistry

Image 1. Anti-Angiopoietin 2 Picoband antibody, IHC(P): Rat Intestine Tissue



Immunohistochemistry

Image 2. Anti-Angiopoietin 2 Picoband antibody, IHC(P): Human Placenta Tissue



Immunohistochemistry

Image 3. Anti-Angiopoietin 2 Picoband antibody, IHC(P): Mouse Intestine Tissue