

Anti-Angiopoietin-2 Picoband Antibody

Catalog # ABO10067

Specification

Anti-Angiopoietin-2 Picoband Antibody - Product Information

ApplicationWB, IHC-P, EPrimary AccessionO15123HostRabbitReactivityHumanClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Angiopoietin-2(ANGPT2) detection. Tested with WB, IHC-P, ELISA in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Angiopoietin-2 Picoband Antibody - Additional Information

Gene ID 285

Other Names Angiopoietin-2, ANG-2, ANGPT2

Calculated MW 56919 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, By Heat

 ELISA , 0.1-0.5 μg/ml, Human, -
 Western blot, 0.1-0.5 μg/ml, Human

Subcellular Localization Secreted.

Protein Name Angiopoietin-2

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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.

Purification Immunogen affinity purified.



Cross Reactivity No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, 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.

Anti-Angiopoietin-2 Picoband Antibody - Protein Information

Name ANGPT2

Function

Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling (PubMed:15284220, PubMed:19116766, PubMed:19223473, PubMed:19223473, PubMed:9204896). Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1 (PubMed:19116766, PubMed:19116766, PubMed:19116766, PubMed:19116766, PubMed:19116766, PubMed:19116766, PubMed:19116766, PubMed:19223473, PubMed:19204896, PubMed:19204896, PubMed:<a href=

target="_blank">19116766, PubMed:19223473, PubMed:9204896). Involved in the regulation of lymphangiogenesis (PubMed:32908006).

Cellular Location Secreted.

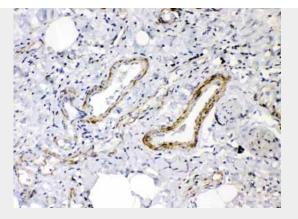
Anti-Angiopoietin-2 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

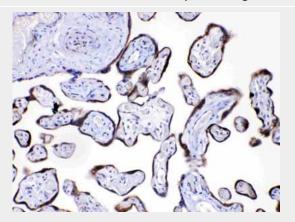
- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-Angiopoietin-2 Picoband Antibody - Images





Angiopoietin-2 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Angiopoietin-2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10067) at 1 \hat{l}_{4} g/mL. The immunohistochemical section was developed using SABC method .



Angiopoietin-2 was detected in paraffin-embedded sections of human placenta tissues using rabbit anti- Angiopoietin-2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10067) at 1 $\hat{1}_{4}$ g/mL. The immunohistochemical section was developed using SABC method .

Anti-Angiopoietin-2 Picoband Antibody - 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.