

## Anti-Angiopoietin 2/ANGPT2 Antibody

Catalog Number: RP1037

### About ANGPT2

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.

### Overview

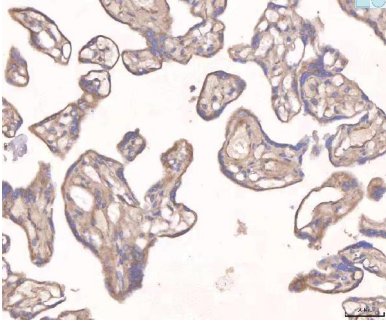
Product Name	Anti-Angiopoietin 2/ANGPT2 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Angiopoietin 2/ANGPT2 Antibody catalog # RP1037. Tested in IHC applications. This antibody reacts with Human.
Application	IHC
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , and 0.05 mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O15123

### Technical Details

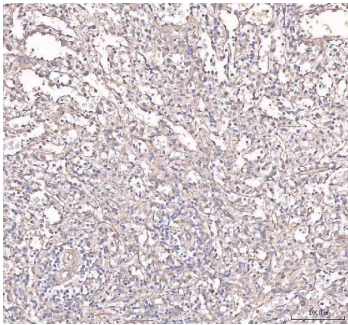
Immunogen	E.coli-derived human Angiopoietin 2 recombinant protein (Position: Y19-N348). Human Angiopoietin 2 shares 84% and 85% amino acid (aa) sequences identity with mouse and rat Angiopoietin 2, respectively.
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins

Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human

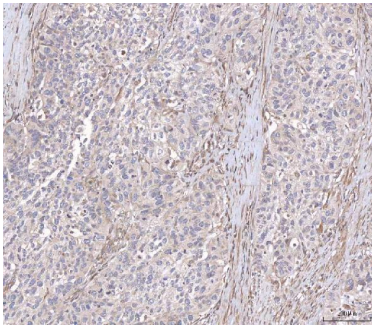
## Anti-Angiopoietin 2/ANGPT2 Antibody (RP1037) Images



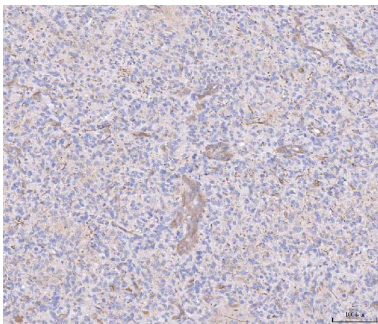
IHC analysis of ANGPT2 using anti-ANGPT2 antibody (RP1037). ANGPT2 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ANGPT2 Antibody (RP1037) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



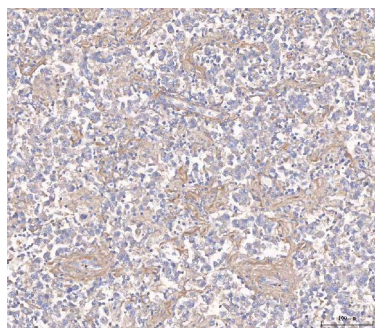
IHC analysis of ANGPT2 using anti-ANGPT2 antibody (RP1037). ANGPT2 was detected in a paraffin-embedded section of human adrenal adenoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ANGPT2 Antibody (RP1037) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



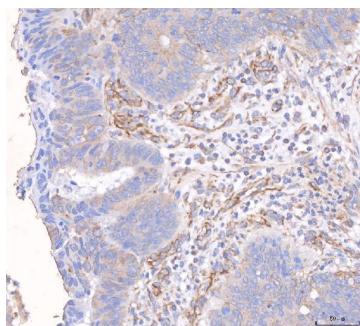
IHC analysis of ANGPT2 using anti-ANGPT2 antibody (RP1037). ANGPT2 was detected in a paraffin-embedded section of human bladder cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ANGPT2 Antibody (RP1037) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of ANGPT2 using anti-ANGPT2 antibody (RP1037). ANGPT2 was detected in a paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ANGPT2 Antibody (RP1037) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of ANGPT2 using anti-ANGPT2 antibody (RP1037). ANGPT2 was detected in a paraffin-embedded section of human testis cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ANGPT2 Antibody (RP1037) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of ANGPT2 using anti-ANGPT2 antibody (RP1037). ANGPT2 was detected in a paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ANGPT2 Antibody (RP1037) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

### 3 Publications Citing This Product

1. PubMed ID: 24759991, Bai X, Li X, Tian J, Zhou Z. Plos One. 2014 Apr 23;9(4):E96117. Doi: 10.1371/Journal.Pone.0096117. Ecollection 2014. Antiangiogenic Treatment Diminishes Renal Injury And Dysfunction Via Regulation Of Local Akt In Early Experimental Diabetes.
2. PubMed ID: 24040410, Li C, Fan J, Song X, Zhang B, Chen Y, Li C, Mi K, Ma H, Song Y, Tao X, Li G. Plos One. 2013 Sep 11;8(9):E75388. Doi: 10.1371/Journal.Pone.0075388. Ecollection 2013. Expression Of Angiopoietin-2 And Vascular Endothelial Growth Factor Receptor-3 Cor...
3. PubMed ID: 25395699, Beneficial Therapeutic Effect of Chinese Herbal Xinji'erkang Formula on Hypertension-Induced Renal Injury in the 2-Kidney-1-Clip Hypertensive Rats

Visit [bosterbio.com/anti-angiopoietin-2-antibody-rp1037-boster.html](http://bosterbio.com/anti-angiopoietin-2-antibody-rp1037-boster.html) to see all 3 publications.

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