

## Anti-Angiopoietin 2/ANGPT2 Antibody Picoband®

Catalog Number: PA1005

### About ANGPT2

Angiopoietin 1 and Angiopoietin 2 are important for development of the endothelium, by regulating tyrosine phosphorylation of the membrane receptor Tie 2. Angiopoietin 2 is only 60% homologous with Angiopoietin 1. Angiopoietin-2 is a naturally occurring antagonist of angiopoietin-1 that competes for binding to the TIE2 receptor and blocks ANGPT1-induced TIE2 autophosphorylation. Angiopoietin 1 binding to Tie 2 causes phosphorylation of the receptor. Angiopoietin 2 competes for this binding, and thus blocks receptor phosphorylation. Angiopoietin 2 expression occurs at sites of vascular remodelling: dorsal aorta and major aortic branches, ovary, placenta and uterus.

### Overview

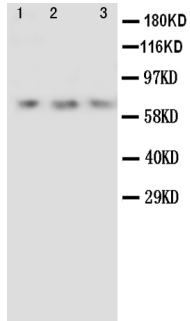
Product Name	Anti-Angiopoietin 2/ANGPT2 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Angiopoietin 2/ANGPT2 Antibody catalog # PA1005. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg 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	A synthetic peptide corresponding to a sequence at the C-terminus of human Angiopoietin 2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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	Western blot, 0.1-0.5ug/ml, Human

## Anti-Angiopoietin 2/ANGPT2 Antibody Picoband® (PA1005) Images



Anti-Angiopoietin 2 antibody, PA1005, Western blotting  
Lane 1: Recombinant Human ANG2 Protein 10ng  
Lane 2: Recombinant Human ANG2 Protein 5ng  
Lane 3: Recombinant Human ANG2 Protein 2.5ng

### 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, Benefical Therapeutic Effect of Chinese Herbal Xinji'erkang Formula on Hypertension-Induced Renal Injury in the 2-Kidney-1-Clip Hypertensive Rats

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