

## Anti-Angiopoietin-2/ANGPT2 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: A00370-Fluoro647

### 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 Picoband® Fluoro647 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	O15123

### Technical Details

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.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro647

	Excitation Wavelength: 650 nm Emission Wavelength: 665 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

### 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

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