

Anti-Angiopoietin-2/ANGPT2 Antibody Picoband® APC Conjugated

Catalog Number: A00370-2-APC

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® APC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
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/ANGPT2 recombinant protein (Position: N357-K404).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	APC Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

6 Publications Citing This Product

1. PubMed ID: 10.1620/tjem.224.221, Exercise Improves Recovery after Ischemic Brain Injury by Inducing the Expression of Angiopoietin-1 and Tie-2 in Rats
2. PubMed ID: 10.1016/j.neulet.2016.12.066, Expression of angiopoietins in central nervous system hemangioblastomas is associated with cyst formation
3. PubMed ID: 10.1007/s00198-014-2992-y, Local renin-angiotensin system is associated with bone mineral density of glucocorticoid-induced osteoporosis patients

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