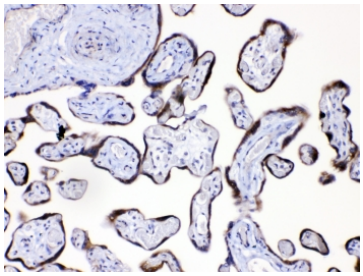
Angiopoietin 2 Antibody (R32640)

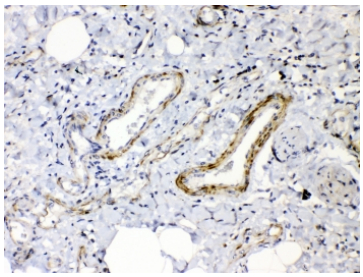
Catalog No.	Formulation	Size
R32640	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

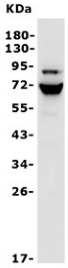
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	O15123
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml ELISA : 0.1-0.5ug/ml (human protein tested; request BSA-free format for coating)
Limitations	This Angiopoietin 2 antibody is available for research use only.



IHC testing of FFPE human placental tissue with Angiopoietin 2 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE human lung cancer tissue with Angiopoietin 2 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



Western blot testing of human HepG2 cell lysate with Angiopoietin 2 antibody. Expected molecular weight: 57-70 kDa depending on glycosylation level.

Description

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.

Application Notes

Optimal dilution of the Angiopoietin 2 antibody should be determined by the researcher.

Immunogen

Amino acids E180-D283 from the human protein were used as the immunogen for the Angiopoietin 2 antibody.

Storage

After reconstitution, the Angiopoietin 2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com