

**Anti-Angiopoietin-2 Antibody**  
Rabbit polyclonal antibody to Angiopoietin-2  
Catalog # AP59912

## Specification

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### Anti-Angiopoietin-2 Antibody - Product Information

Application	WB, IH
Primary Accession	<a href="#">O15123</a>
Other Accession	<a href="#">O35608</a>
Reactivity	Human, Mouse, Rat, Monkey, Pig, Drosophila
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56919

### Anti-Angiopoietin-2 Antibody - Additional Information

Gene ID 285

#### Other Names

Angiopoietin-2; ANG-2

#### Target/Specificity

Recognizes endogenous levels of Angiopoietin-2 protein.

#### Dilution

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200)

IH~~WB (1/500 - 1/1000), IH (1/50 - 1/200)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

### Anti-Angiopoietin-2 Antibody - Protein Information

Name ANGPT2

#### Function

Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling (PubMed: [15284220](http://www.uniprot.org/citations/15284220)), PubMed: [19116766](http://www.uniprot.org/citations/19116766), PubMed: [19223473](http://www.uniprot.org/citations/19223473), PubMed: [9204896](http://www.uniprot.org/citations/9204896)).

Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1 (PubMed: [15284220](http://www.uniprot.org/citations/15284220), PubMed: [9204896](#)).

[19116766](http://www.uniprot.org/citations/19116766), PubMed: [19223473](http://www.uniprot.org/citations/19223473), PubMed: [9204896](http://www.uniprot.org/citations/9204896)). In the absence of angiogenic inducers, such as VEGF, ANGPT2-mediated loosening of cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation, thus serving as a permissive angiogenic signal (PubMed: [15284220](http://www.uniprot.org/citations/15284220), PubMed: [19116766](http://www.uniprot.org/citations/19116766), PubMed: [19223473](http://www.uniprot.org/citations/19223473), PubMed: [9204896](http://www.uniprot.org/citations/9204896)). Involved in the regulation of lymphangiogenesis (PubMed: [32908006](http://www.uniprot.org/citations/32908006)).

### Cellular Location

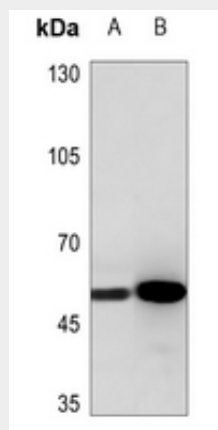
Secreted.

### Anti-Angiopoietin-2 Antibody - Protocols

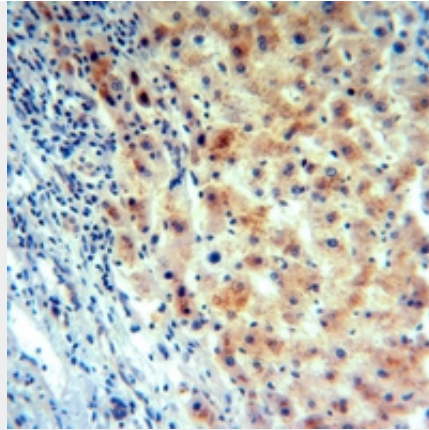
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-Angiopoietin-2 Antibody - Images



Western blot analysis of Angiopoietin-2 expression in mouse heart (A), mouse muscle (B) whole cell lysates.



Immunohistochemical analysis of Angiopoietin-2 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-Angiopoietin-2 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Angiopoietin-2. The exact sequence is proprietary.