

# Anti-Angiopoietin-2 Antibody

Rabbit polyclonal antibody to Angiopoietin-2

Catalog # AP59912

## Product Information

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|-------------------|--|
| Application       | WB, IHC                                    |
| 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                                      |

## Additional Information

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

## Protein Information

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|-------------------|---|
| Name              | ANGPT2  |
| Function          | Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling (PubMed: <a href="#">15284220</a> , PubMed: <a href="#">19116766</a> , PubMed: <a href="#">19223473</a> , PubMed: <a href="#">9204896</a> ). Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1 (PubMed: <a href="#">15284220</a> , PubMed: <a href="#">19116766</a> , PubMed: <a href="#">19223473</a> , PubMed: <a href="#">9204896</a> ). 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: <a href="#">15284220</a> , PubMed: <a href="#">19116766</a> , PubMed: <a href="#">19223473</a> , PubMed: <a href="#">9204896</a> ). Involved in the regulation of lymphangiogenesis (PubMed: <a href="#">32908006</a> ). |
| Cellular Location | Secreted.   |

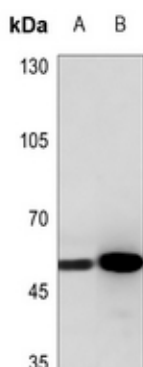
## Background

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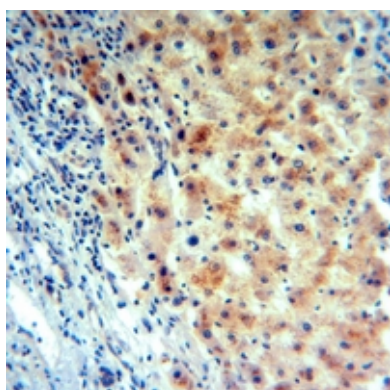
KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Angiopoietin-2. The exact sequence is proprietary.

## Images

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.