

## Angiopoietin-2 Polyclonal Antibody

Catalog No: #42440

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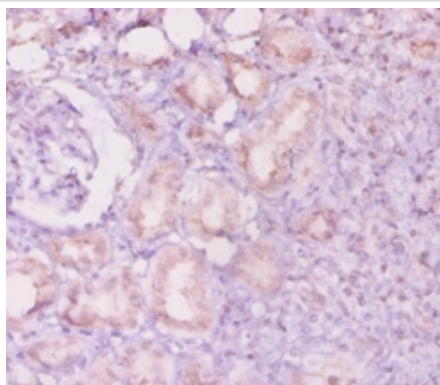
## Description

|                       |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| Product Name          | Angiopoietin-2 Polyclonal Antibody                                                 |
| Host Species          | Rabbit                                                                             |
| Clonality             | Polyclonal                                                                         |
| Purification          | Caprylic Acid Ammonium Sulfate Precipitation purified                              |
| Applications          | IHC                                                                                |
| Species Reactivity    | Hu                                                                                 |
| Specificity           | The antibody detects endogenous level of total Angiopoietin-2 polyclonal antibody. |
| Immunogen Type        | protein                                                                            |
| Immunogen Description | Recombinant human Angiopoietin-2 protein                                           |
| Target Name           | Angiopoietin-2                                                                     |
| Other Names           | ANGPT2                                                                             |
| Accession No.         | Swiss-Prot#: O15123                                                                |
| Uniprot               | O15123                                                                             |
| GeneID                | 285;                                                                               |
| Formulation           | Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4      |
| Storage               | Store at -20°C                                                                     |

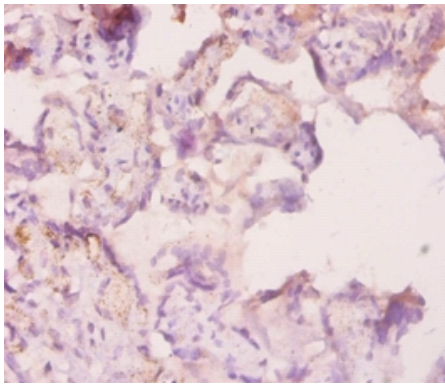
## Application Details

Immunohistochemistry: 1:20 - 1:200

## Images



Immunohistochemical analysis of paraffin-embedded human kidney using #42440 at dilution of 1:20.



Immunohistochemical analysis of paraffin-embedded human placenta using #42440 at dilution of 1:20.

## Background

Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling. Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1. 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.

## References

[1] "Angiopoietin-2, a natural antagonist for Tie2 that disrupts in vivo angiogenesis." Maisonpierre P.C., Suri C., Jones P.F., Bartunkova S., Wiegand S.J., Radziejewski C., Compton D.L., McClain J., Aldrich T.H., Papadopoulos N., Daly T.J., Davis S., Sato

Note: This product is for in vitro research use only