

ANGPT2 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP10103b**Specification**

ANGPT2 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O15123](#)
Other Accession [NP_001138.1](#), [NP_00112359.1](#),
[NP_00112360.1](#)

ANGPT2 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 285

Other Names

Angiopoietin-2, ANG-2, ANGPT2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ANGPT2 Antibody (C-term) Blocking peptide - 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: [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)).

target="_blank">19223473, PubMed:9204896). Involved in the regulation of lymphangiogenesis (PubMed:32908006).

Cellular Location

Secreted.

ANGPT2 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ANGPT2 Antibody (C-term) Blocking peptide - Images

ANGPT2 Antibody (C-term) Blocking peptide - Background

The protein encoded by this gene is an antagonist of angiopoietin 1 (ANGPT1) and endothelial TEK tyrosine kinase (TIE-2, TEK). The encoded protein disrupts the vascular remodeling ability of ANGPT1 and may induce endothelial cell apoptosis. Three transcript variants encoding three different isoforms have been found for this gene.

ANGPT2 Antibody (C-term) Blocking peptide - References

Morrissey, C., et al. Prostate 70(16):1799-1808(2010) Romero, R., et al. Am. J. Obstet. Gynecol. 203(4), 361 (2010) ; Bento, C.F., et al. Exp. Physiol. 95(9):955-970(2010) Vrbacky, F., et al. Hematology 15(4):210-214(2010) Chen, J., et al. Biochem. Biophys. Res. Commun. 398(2):212-216(2010)