

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

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

Primary Accession [O15123](#)  
Other Accession [NP\\_001138.1](#), [NP\\_001112359.1](#),  
[NP\\_001112360.1](#)

**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</a>, PubMed:<a href="http://www.uniprot.org/citations/9204896" target="\_blank">9204896</a>). Involved in the regulation of lymphangiogenesis (PubMed:<a href="http://www.uniprot.org/citations/32908006" target="\_blank">32908006</a>).

#### **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)