

## Anti-Angiopoietin 1 ANGPT1 Rabbit Monoclonal Antibody Catalog # ABO14190

### Specification

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#### Anti-Angiopoietin 1 ANGPT1 Rabbit Monoclonal Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q15389</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-Angiopoietin 1 ANGPT1 Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Rat.

#### Anti-Angiopoietin 1 ANGPT1 Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 284

#### Other Names

Angiopoietin-1, ANG-1, ANGPT1, KIAA0003

#### Calculated MW

57513 MW KDa

#### Application Details

WB 1:1000-1:5000

#### Subcellular Localization

Secreted.

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human Angiopoietin 1

#### Purification

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

#### Anti-Angiopoietin 1 ANGPT1 Rabbit Monoclonal Antibody - Protein Information

**Name** ANGPT1

**Synonyms** KIAA0003

**Function**

Binds and activates TEK/TIE2 receptor by inducing its dimerization and tyrosine phosphorylation. Plays an important role in the regulation of angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of vascular quiescence. Required for normal angiogenesis and heart development during embryogenesis. After birth, activates or inhibits angiogenesis, depending on the context. Inhibits angiogenesis and promotes vascular stability in quiescent vessels, where endothelial cells have tight contacts. In quiescent vessels, ANGPT1 oligomers recruit TEK to cell-cell contacts, forming complexes with TEK molecules from adjoining cells, and this leads to preferential activation of phosphatidylinositol 3-kinase and the AKT1 signaling cascades. In migrating endothelial cells that lack cell-cell adhesions, ANGPT1 recruits TEK to contacts with the extracellular matrix, leading to the formation of focal adhesion complexes, activation of PTK2/FAK and of the downstream kinases MAPK1/ERK2 and MAPK3/ERK1, and ultimately to the stimulation of sprouting angiogenesis. Mediates blood vessel maturation/stability. Implicated in endothelial developmental processes later and distinct from that of VEGF. Appears to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme.

**Cellular Location**

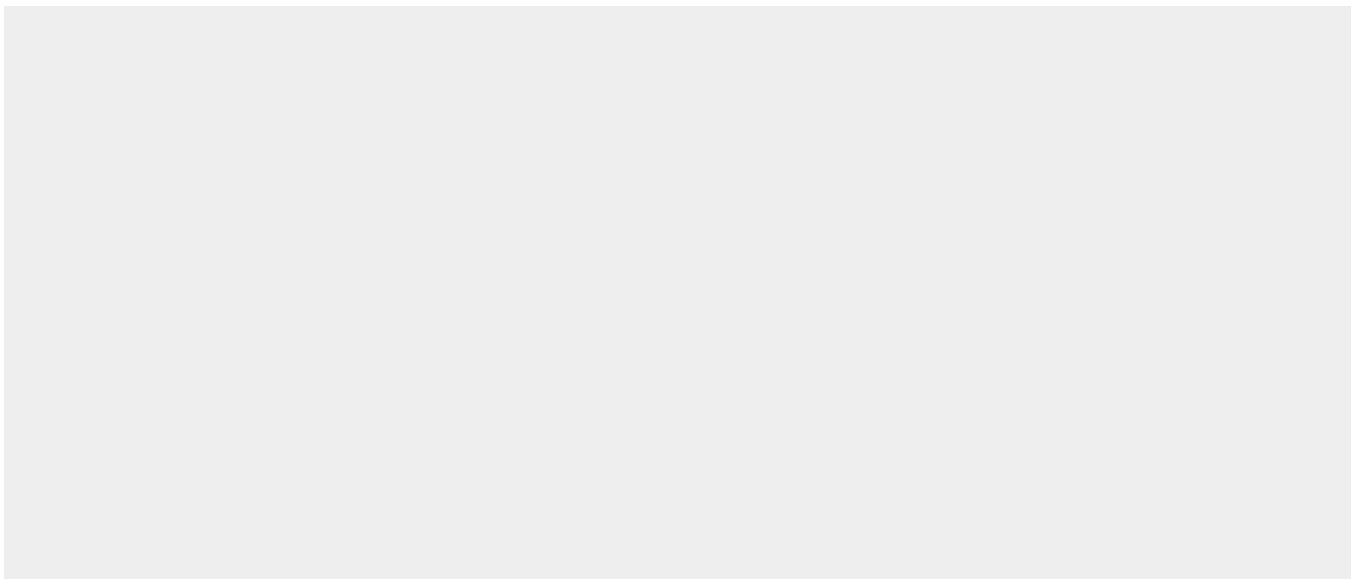
Secreted.

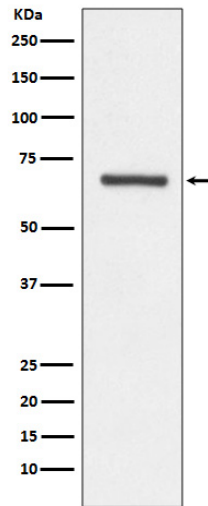
**Anti-Angiopoietin 1 ANGPT1 Rabbit Monoclonal Antibody - Protocols**

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 1 ANGPT1 Rabbit Monoclonal Antibody - Images**





Western blot analysis of Angiopoietin 1 expression in HeLa cell lysate.