

## Goat anti-ANGPT1 Antibody

Peptide-affinity purified goat antibody Catalog # AF4542a

## **Specification**

## Goat anti-ANGPT1 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host

Clonality Calculated MW IF, FC, Pep-ELISA

Q15389

NP 001137.2, NP 001186788.1

Human, Mouse, Rat, Pig, Dog, Bovine

Goat Polyclonal 57513

# Goat anti-ANGPT1 Antibody - Additional Information

#### Gene ID 284

#### **Other Names**

ANGPT1; angiopoietin 1; AGP1; AGPT; ANG1

## **Dilution**

IF~~1:50~200 FC~~1:10~50 Pep-ELISA~~N/A

### **Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

# **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

Goat anti-ANGPT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

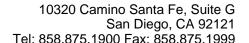
## **Goat anti-ANGPT1 Antibody - Protein Information**

## 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, ANGT1 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

Cellular Location Secreted.

## Goat anti-ANGPT1 Antibody - Protocols

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

reciprocal interactions between the endothelium and surrounding matrix and mesenchyme.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**Goat anti-ANGPT1 Antibody - Images**