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ANGPT1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10451b

Specification

ANGPT1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q15389
Other Accession	Q9BDY8, O08538, O18920, NP_001137.2
Reactivity	**Human, Mouse**
Predicted	**Bovine, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Antigen Region	**374-402**

ANGPT1 Antibody (C-term) - Additional Information

Gene ID 284

Other Names
Angiopoietin-1, ANG-1, ANGPT1, KIAA0003

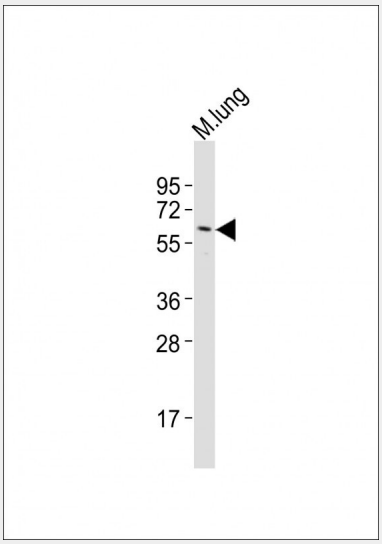
Target/Specificity
This ANGPT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 374-402 amino acids from the C-terminal region of human ANGPT1.

Dilution
WB~~1:1000

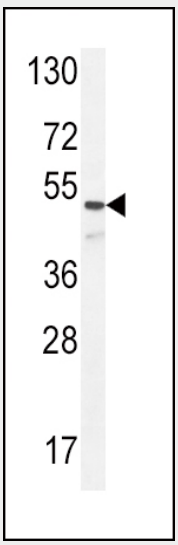
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
ANGPT1 Antibody (C-term) is for research



Anti-ANGPT1 Antibody (C-term)at 1:2000 dilution + mouse lung lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 58 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ANGPT1 Antibody (C-term) (Cat. #AP10451b) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the ANGPT1 antibody detected the ANGPT1

use only and not for use in diagnostic or therapeutic procedures.

ANGPT1 Antibody (C-term) - 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 reciprocal interactions between the endothelium and surrounding matrix and mesenchyme.

Cellular Location
Secreted.

ANGPT1 Antibody (C-term) - Protocols

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

protein (arrow).

ANGPT1 Antibody (C-term) - Background

Angiopoietins are proteins with important roles in
vascular development and angiogenesis. All angiopoietins bind with
similar affinity to an endothelial cell-specific tyrosine-protein
kinase receptor. The protein encoded by this gene is a secreted
glycoprotein that activates the receptor by inducing its tyrosine
phosphorylation. It plays a critical role in mediating reciprocal
interactions between the endothelium and surrounding matrix and
mesenchyme. The protein also contributes to blood vessel maturation
and stability, and may be involved in early development of the
heart.

ANGPT1 Antibody (C-term) - References

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- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture