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Anti-ANGPT1 / Angiopoietin-1 Antibody (aa158-207)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18371

Product Information

Application	WB, IHC-P, E
Primary Accession	Q15389
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	57513

Additional Information

Gene ID	284
Alias Symbol	ANGPT1
Other Names	ANGPT1, Angiopoietin 1, Angiopoietin-1, AGPT, AGP1, ANG-1, ANG1, KIAA0003
Target/Specificity	Ang-1 antibody detects endogenous levels of Ang-1.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-ANGPT1 / Angiopoietin-1 Antibody (aa158-207) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.