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anti-Angiopoietin 1 antibody (AA 16-498)

2 Images



Overview

Quantity:	100 μg
Target:	Angiopoietin 1 (ANGPT1)
Binding Specificity:	AA 16-498
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human Angiopoietin-1 protein (16-498AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	Angiopoietin 1 (ANGPT1)
Alternative Name:	ANGPT1 (ANGPT1 Products)
Background:	Background: 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.

Aliases: AGP 1 antibody, AGP1 antibody, AGPT antibody, ANG 1 antibody, ANG antibody, ANG-1 antibody, ANG1 antibody, Angiopoietin-1 antibody, Angiopoietin1 antibody, ANGP1_HUMAN antibody, ANGPT 1 antibody, Angpt1 antibody, KIAA0003 antibody, OTTHUMP00000227592 antibody, OTTHUMP00000227599 antibody, OTTHUMP00000227600 antibody

UniProt: Q15389

Pathways: RTK Signaling, Glycosaminoglycan Metabolic Process

Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

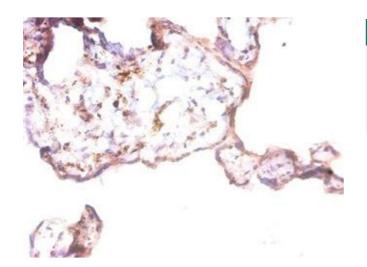
Format: Liquid Buffer: Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4 Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

handled by trained staff only.

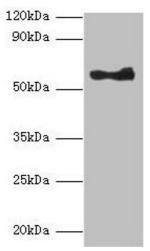
-20 °C,-80 °C Storage:

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7144088 at dilution of 1:50



Western Blotting

Image 2. Western blot All lanes: ANGPT1 antibody at 2 μ g/mL + A549 whole cell lysate Secondary Goat polyclonal to rabbit lgG at 1/10000 dilution Predicted bands size: 58 kDa Observed bands size: 58 kDa