

Phospho-AMOT(S1041) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP3776a

Product Information

Application DB, E **Primary Accession** Q4VCS5

Other Accession NP_001106962.1

Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB40428
Calculated MW 118085

Additional Information

Gene ID 154796

Other Names Angiomotin, AMOT, KIAA1071

Target/Specificity This AMOT Antibody is generated from rabbits immunized with a KLH

conjugated synthetic phosphopeptide corresponding to amino acid residues

surrounding S1041 of human AMOT.

DB~~1:500 E~~Use at an assay dependent concentration.

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 Phospho-AMOT(S1041) Antibody is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name AMOT

Synonyms KIAA1071

Function Plays a central role in tight junction maintenance via the complex formed

with ARHGAP17, which acts by regulating the uptake of polarity proteins at tight junctions. Appears to regulate endothelial cell migration and tube

formation. May also play a role in the assembly of endothelial cell-cell junctions. Repressor of YAP1 and WWTR1/TAZ transcription of target genes, potentially via regulation of Hippo signaling-mediated phosphorylation of YAP1 which results in its recruitment to tight junctions (PubMed: 21205866).

Cellular Location Cell junction, tight junction. Note=Localized on the cell surface. May act as a

transmembrane protein

Tissue Location Expressed in placenta and skeletal muscle. Found in the endothelial cells of

capillaries as well as larger vessels of the placenta.

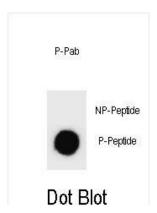
Background

This gene belongs to the motin family of angiostatin binding proteins characterized by conserved coiled-coil domains and C-terminal PDZ binding motifs. The encoded protein is expressed predominantly in endothelial cells of capillaries as well as larger vessels of the placenta where it may mediate the inhibitory effect of angiostatin on tube formation and the migration of endothelial cells toward growth factors during the formation of new blood vessels. Alternative splicing results in multiple transcript variants encoding different isoforms.

References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Heller, B., et al. J. Biol. Chem. 285(16):12308-12320(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Gagne, V., et al. Cell Motil. Cytoskeleton 66(9):754-768(2009) Zheng, Y., et al. Circ. Res. 105(3):260-270(2009)

Images



Dot blot analysis of Phospho-AMOT-S1041 Antibody Phospho-specific Pab (Cat. #AP3776a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

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