10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AMOTL2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8860C

Specification

AMOTL2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9Y2J4
Other Accession	G3V735, Q8K371, F1MRK3
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**126-152**

AMOTL2 Antibody (Center) - Additional Information

Gene ID 51421

Other Names
Angiomotin-like protein 2, Leman coiled-coil protein, LCCP, AMOTL2, KIAA0989

Target/Specificity
This AMOTL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 126-152 amino acids from the Central region of human AMOTL2.

Dilution
WB~~1:2000
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
AMOTL2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

AMOTL2 Antibody (Center) - Protein Information

Name AMOTL2 (HGNC:17812)

Synonyms KIAA0989

Function Regulates the translocation of phosphorylated SRC to peripheral cell-matrix adhesion sites. Required for proper architecture of actin filaments. Plays a role in coupling actin fibers to cell junctions in endothelial cells and is therefore required for correct endothelial cell morphology via facilitating transcellular transmission of mechanical force resulting in endothelial cell elongation (By similarity). Required for the anchoring of radial actin fibers to CDH1 junction complexes at the cell membrane which facilitates organization of radial actin fiber structure and cellular response to contractile forces (PubMed:28842668). This contributes to maintenance of cell area, size, shape, epithelial sheet organization and trophectoderm cell properties that facilitate blastocyst zona hatching (PubMed:28842668). Inhibits the Wnt/beta-catenin signaling pathway, probably by recruiting CTNNB1 to recycling endosomes and hence preventing its translocation to the nucleus. Participates in angiogenesis. Activates the Hippo signaling pathway in response to cell contact inhibition via interaction with and ubiquitination by Crumbs complex-bound WWP1 (PubMed:34404733). Ubiquitinated AMOTL2 then interacts with LATS2 which in turn phosphorylates YAP1, excluding it from the nucleus and localizing it to the cytoplasm and tight junctions, therefore ultimately repressing YAP1-driven transcription of target genes (PubMed:17293535, PubMed:21205866, PubMed:26598551). Acts to inhibit WWTR1/TAZ transcriptional coactivator activity via sequestering WWTR1/TAZ in the cytoplasm and at tight junctions (PubMed:23911299). Regulates the size and protein composition of the podosome cortex and core at myofibril neuromuscular junctions (PubMed:23525008). Selectively promotes FGF-induced MAPK activation through SRC (PubMed:17293535). May play a role in the polarity, proliferation and migration of endothelial cells.

Cellular Location
Recycling endosome {ECO:0000250|UniProtKB:A1YB07}. Cytoplasm. Cell projection, podosome {ECO:0000250|UniProtKB:Q8K371}. Cell junction

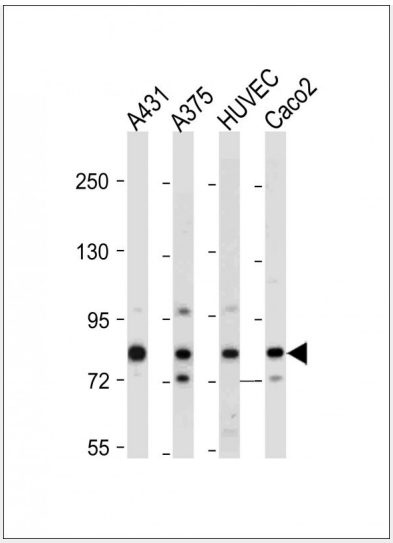
AMOTL2 Antibody (Center) - Protocols

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

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

AMOTL2 Antibody (Center) - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



All lanes : Anti-AMOTL2 Antibody (Center) at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: A375 whole cell lysate Lane 3: HUVEC whole cell lysate Lane 4: Caco2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 86 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

AMOTL2 Antibody (Center) - Background

AMOTL2 is a protein that binds angiostatin, a circulating inhibitor of the formation of new blood vessels (angiogenesis). Angiomotin mediates angiostatin inhibition of endothelial cell migration and tube formation in vitro. The protein encoded by this gene is related to angiomotin and is a member of the motins protein family.

AMOTL2 Antibody (Center) - References

Bratt,A.,et.al., Gene 298 (1), 69-77 (2002)

AMOTL2 Antibody (Center) - Citations

- Vestigial-like family member 3 (VGLL3), a cofactor for TEAD transcription factors, promotes cancer cell proliferation by activating the Hippo pathway
- Amotl2 interacts with LL5β, localizes to podosomes and regulates postsynaptic differentiation in muscle.