Angiomotin-L1 (H-181): sc-135330



The Power to Question

BACKGROUND

Angiomotin, also known as AMOT, is a 1,084 amino acid protein that belongs to the motin family of angiostatin binding proteins. Members of the motin family contain conserved coiled-coil domains and PDZ binding motifs at their C-termini. Expressed in skeletal muscle and placenta, Angiomotin localizes to the cell surface at tight junctions and is believed to be involved in tight junction maintenance. Angiomotin binds to angiostatin and plays a vital role in angiogenesis, promoting tubule formation and growth factor-induced migration of endothelial cells. This suggests that Angiomotin may be an important player in tumor angiogenesis and could serve as a potential therapeutic target in cancer. Angiomotin-L1 (angiomotin like 1), also known as AMOTL1 or JEAP, is a 956 amino acid peripheral membrane protein that localizes to tight junctions and may help to control cellular permeability and to maintain cell polarity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AMOTL1 (human) mapping to 11q21; Amotl1 (mouse) mapping to 9 A1.

SOURCE

Angiomotin-L1 (H-181) is a rabbit polyclonal antibody raised against amino acids 776-956 mapping at the C-terminus of Angiomotin-L1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Angiomotin-L1 (H-181) is recommended for detection of Angiomotin-L1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with family members Angiomotin or Angiomotin-L2.

Angiomotin-L1 (H-181) is also recommended for detection of Angiomotin-L1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Angiomotin-L1 siRNA (h): sc-72491, Angiomotin-L1 siRNA (m): sc-72492, Angiomotin-L1 shRNA Plasmid (h): sc-72491-SH, Angiomotin-L1 shRNA Plasmid (m): sc-72492-SH, Angiomotin-L1 shRNA (h) Lentiviral Particles: sc-72491-V and Angiomotin-L1 shRNA (m) Lentiviral Particles: sc-72492-V

Molecular Weight of Angiomotin-L1: 105 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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