

# Angiomotin-L2 (G-23): sc-130951

## 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-L2, also known as AMOTL2 or LCCP, is a 779 amino acid protein that exists as multiple alternatively spliced isoforms and may function in a similar manner to Angiomotin.

## REFERENCES

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3. Bratt, A., et al. 2002. Angiomotin belongs to a novel protein family with conserved coiled-coil and PDZ binding domains. Gene 298: 69-77.
4. Wells, C.D., et al. 2006. A RICH1/AMOT complex regulates the Cdc42 GTPase and apical-polarity proteins in epithelial cells. Cell 125: 535-548.
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6. Huang, H., et al. 2007. Amotl2 is essential for cell movements in zebrafish embryo and regulates c-Src translocation. Development 134: 979-988.
7. Aase, K., et al. 2007. Angiomotin regulates endothelial cell migration during embryonic angiogenesis. Genes Dev. 21: 2055-2068.
8. Ernkvist, M., et al. 2008. Differential roles of p80- and p130-angiomotin in the switch between migration and stabilization of endothelial cells. Biochim. Biophys. Acta 1783: 429-437.

## CHROMOSOMAL LOCATION

Genetic locus: AMOTL2 (human) mapping to 3q22.1.

## SOURCE

Angiomotin-L2 (G-23) is an affinity purified rabbit polyclonal antibody raised against synthetic Angiomotin-L2 peptide of human origin.

## PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

Angiomotin-L2 (G-23) is recommended for detection of Angiomotin-L2 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Angiomotin-L2 siRNA (h): sc-72493, Angiomotin-L2 shRNA Plasmid (h): sc-72493-SH and Angiomotin-L2 shRNA (h) Lentiviral Particles: sc-72493-V.

Molecular Weight of Angiomotin-L2: 86 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

## 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).

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **Angiomotin-L2 (A-9): sc-398261**, our highly recommended monoclonal alternative to Angiomotin-L2 (G-23).