



FMNL3 (A-17): sc-66766

BACKGROUND

Formins are a conserved class of proteins expressed in all eukaryotes, with known roles in generating cellular Actin-based structures. Formin-related proteins have been implicated in morphogenesis, cytokinesis and cell polarity. FMNL3 (formin-like 3), whose alternative names include formin homology 2 domain-containing protein 3, WW domain-binding protein 3, WBP3, FHOD3, FLJ45265, DKFZp762B245 and MGC45819, is a 1,028 amino acid protein that belongs to the formin homology family. FMNL3 contains one FH2 (formin homology 2) domain, as well as a GBD/FH3 (Rho GTPase-binding/formin homology 3) domain. Three FMNL3 isoforms are known to exist as a result of alternative splicing events, and the gene encoding FMNL3 maps to human chromosome 12q13.12.

REFERENCES

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2. Katoh, M. and Katoh, M. 2003. Identification and characterization of human FMNL1, FMNL2 and FMNL3 genes in silico. *Int. J. Oncol.* 22: 1161-1168.
3. Katoh, M. and Katoh, M. 2004. Characterization of FMN2 gene at human chromosome 1q43. *Int. J. Mol. Med.* 14: 469-474.
4. Katoh, Y. and Katoh, M. 2004. Identification and characterization of CDC50A, CDC50B and CDC50C genes in silico. *Oncol. Rep.* 12: 939-943.
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CHROMOSOMAL LOCATION

Genetic locus: Fmnl3 (mouse) mapping to 15 F1.

SOURCE

FMNL3 (A-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FMNL3 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-66766 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

FMNL3 (A-17) is recommended for detection of FMNL3 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for FMNL3 siRNA (m): sc-62330, FMNL3 shRNA Plasmid (m): sc-62330-SH and FMNL3 shRNA (m) Lentiviral Particles: sc-62330-V.

Molecular Weight of FMNL3: 117 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

PROTOCOLS

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