

FMNL3 (E-20): sc-66768

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

1. Bedford, M.T., Chan, D.C. and Leder, P. 1997. FBP WW domains and the Abl SH3 domain bind to a specific class of proline-rich ligands. *EMBO J.* 16: 2376-2383.
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.
5. Schwartzberg, P.L. 2007. Formin the way. *Immunity* 26: 139-141.
6. Gomez, T.S., Kumar, K., Medeiros, R.B., Shimizu, Y., Leibson, P.J. and Billadeau, D.D. 2007. Formins regulate the Actin-related protein 2/3 complex-independent polarization of the centrosome to the immunological synapse. *Immunity* 26: 177-190.

CHROMOSOMAL LOCATION

Genetic locus: FMNL3 (human) mapping to 12q13.12.

SOURCE

FMNL3 (E-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FMNL3 of human 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-66768 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 (E-20) is recommended for detection of FMNL3 of human 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 (h): sc-62329, FMNL3 shRNA Plasmid (h): sc-62329-SH and FMNL3 shRNA (h) Lentiviral Particles: sc-62329-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.