SANTA CRUZ BIOTECHNOLOGY, INC.

FMNL1 (H-60): sc-135150



BACKGROUND

Formin-like protein 1 (FMNL1, formin-related protein, FrI) is a 1,094 amino acid protein encoded by the mouse gene Fmnl1. FMNL1 belongs to the formin homology family and has one DAD (diaphanous autoregulatory domain), one FH2 (formin homology 2) domain and one GBD/FH3 (Rho GTPase-binding/ formin homology 3) domain. Formins are a conserved class of proteins expressed in all eukaryotes, with known roles in gener-ating cellular actin-based structures. FMNL1 is believed to play a role in the control of cell motility and survival of macrophages. FMNL1 has been found to interact with RAC1, PFN1 and PFN2 and can block apoptotic cell death and inhibit cell adhesion and migration. FMNL1 is located in the cytoplasm and is highly expressed in the spleen, lymph node and bone marrow cells.

REFERENCES

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- Katoh, M., et al. 2003. Identification and characterization of human FMNL1, FMNL2 and FMNL3 genes in silico. Int. J. Oncol. 22: 1161-1168.
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- Harris, E.S., et al. 2004. The mouse formin, FRLα, slows actin filament barbed end elongation, competes with capping protein, accelerates polymerization from monomers, and severs filaments. J. Biol. Chem. 279: 20076-20087.
- Favaro, P.M., et al. 2006. High expression of FMNL1 protein in T non-Hodgkin's lymphomas. Leuk. Res. 30: 735-738.
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CHROMOSOMAL LOCATION

Genetic locus: FMNL1 (human) mapping to 17q21.31; Fmnl1 (mouse) mapping to 11 E1.

SOURCE

FMNL1 (H-60) is a rabbit polyclonal antibody raised against amino acids 161-220 mapping within an internal region of FMNL1 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.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

FMNL1 (H-60) is recommended for detection of FMNL1, also designated Formin-like protein 1, of mouse, rat and 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).

FMNL1 (H-60) is also recommended for detection of FMNL1, also designated Formin-like protein 1, in additional species, including equine, canine and porcine.

Suitable for use as control antibody for FMNL1 siRNA (h): sc-62325, FMNL1 siRNA (m): sc-62326, FMNL1 shRNA Plasmid (h): sc-62325-SH, FMNL1 shRNA Plasmid (m): sc-62326-SH, FMNL1 shRNA (h) Lentiviral Particles: sc-62325-V and FMNL1 shRNA (m) Lentiviral Particles: sc-62326-V.

Molecular Weight of FMNL1: 160 kDa.

Positive Controls: HuT 78 whole cell lysate: sc-2208, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

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.

DATA



FMNL1 (H-60): sc-135150. Western blot analysis of FMNL1 expression in HuT 78 (\bf{A}), Jurkat (\bf{B}) and HeLa (\bf{C}) whole cell lysates.

RESEARCH USE

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

MONOS Satisfation Guaranteed

Try FMNL1 (C-5): sc-390023 or FMNL1 (A-4): sc-390466, our highly recommended monoclonal alternatives to FMNL1 (H-60).