SANTA CRUZ BIOTECHNOLOGY, INC.

FMNL2 (H-45): sc-135151

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The Power to Question

BACKGROUND

Formin-like protein 2 (FMNL2, formin homology 2 domain-containing protein 2, FHOD2) is a 1,087 amino acid protein encoded by the human gene FMNL2. FMNL2 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 generating cellular actin-based structures. Formin-related proteins have been implicated in morphogenesis, cytokinesis, and cell polarity. FMNL2 is believed to play a role in the control of cell motility and survival of macrophages.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FMNL2 (human) mapping to 2q23.3; Fmnl2 (mouse) mapping to 2 C1.1.

SOURCE

FMNL2 (H-45) is a rabbit polyclonal antibody raised against amino acids 461-505 mapping within an internal region of FMNL2 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, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

FMNL2 (H-45) is recommended for detection of FMNL2, also designated Formin-like 2, 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).

FMNL2 (H-45) is also recommended for detection of FMNL2, also designated Formin-like 2, in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FMNL2 siRNA (h): sc-62327, FMNL2 siRNA (m): sc-62328, FMNL2 shRNA Plasmid (h): sc-62327-SH, FMNL2 shRNA Plasmid (m): sc-62328-SH, FMNL2 shRNA (h) Lentiviral Particles: sc-62327-V and FMNL2 shRNA (m) Lentiviral Particles: sc-62328-V.

Molecular Weight of FMNL2: 123 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

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.

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.