

FHOD1 (C-14): sc-46964

BACKGROUND

The limb deformity (ld) locus influences normal limb development and gives rise to alternative mRNAs that can translate into a family of protein products known as formins. Formins play a crucial role in cytoskeletal reorganization by influencing actin filament assembly. The temporal genetic hierarchy influencing normal limb development can deregulate and mediate mammalian developmental syndromes. FHOD1 induces the formation of and associates with bundled actin stress fibers in response to the activity of the Rho-ROCK cascade. It influences several cellular activities including cell migration, cytoskeletal arrangement, signal transduction and gene expression.

REFERENCES

1. Maas, R.L., Jepeal, L.I., Elfering, S.L., Holcombe, R.F., Morton, C.C., Eddy, R.L., Byers, M.G., Shows, T.B. and Leder, P. 1991. A human gene homologous to the formin gene residing at the murine limb deformity locus: chromosomal location and RFLPs. *Am. J. Hum. Gen.* 48: 687-695.
2. Wynshaw-Boris, A., Ryan, G., Deng, C.X., Chan, D.C., Jackson-Grusby, L., Larson, D., Dunmore, J.H. and Leder, P. 1997. The role of a single formin isoform in the limb and renal phenotypes of limb deformity. *Mol. Med.* 3: 372-384.

CHROMOSOMAL LOCATION

Genetic locus: FHOD1 (human) mapping to 16q22.1; Fhod1 (mouse) mapping to 8 D3.

SOURCE

FHOD1 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FHOD1 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-46964 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FHOD1 (C-14) is recommended for detection of FHOD1 of mouse 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FHOD1 (C-14) is also recommended for detection of FHOD1 in additional species, including equine, canine and bovine.

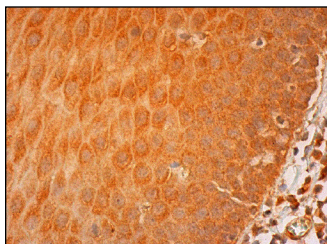
Suitable for use as control antibody for FHOD1 siRNA (h): sc-60635, FHOD1 siRNA (m): sc-155893, FHOD1 shRNA Plasmid (h): sc-60635-SH, FHOD1 shRNA Plasmid (m): sc-155893-SH, FHOD1 shRNA (h) Lentiviral Particles: sc-60635-V and FHOD1 shRNA (m) Lentiviral Particles: sc-155893-V.

Molecular Weight of FHOD1: 128 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



FHOD1 (C-14): sc-46964. Immunoperoxidase staining of formalin fixed, paraffin-embedded human tonsil tissue showing cytoplasmic staining of squamous epithelial cells.

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 or our catalog for detailed protocols and support products.


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Try **FHOD1 (D-6): sc-365437** or **FHOD1 (B-6): sc-365433**, our highly recommended monoclonal alternatives to FHOD1 (C-14).