

FHOD3 (M-102): sc-292238

BACKGROUND

FHOD3 (formin homology 2 domain containing 3), also known as FHOS2 or KIAA1695, is a 1,422 amino acid protein that localizes to both the cytoplasm and the cytoskeleton and contains one DAD domain, one FH1 domain, one FH2 domain and one GBD/FH3 domain. Expressed in brain, heart and kidney, FHOD3 interacts with intermediate filaments and functions as an actin-organizing protein that is thought to promote the formation of stress fibers in conjunction with cellular elongation. Multiple isoforms of FHOD3 exist due to alternative splicing events. The gene encoding FHOD3 maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

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3. Nagase, T., et al. 2000. Prediction of the coding sequences of unidentified human genes. XIX. The complete sequences of 100 new cDNA clones from brain which code for large proteins *in vitro*. *DNA Res.* 7: 347-355.
4. Katoh, M., et al. 2004. Identification and characterization of human FHOD3 gene *in silico*. *Int. J. Mol. Med.* 13: 615-620.
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CHROMOSOMAL LOCATION

Genetic locus: FHOD3 (human) mapping to 18q12.2; Fhod3 (mouse) mapping to 18 A2.

SOURCE

FHOD3 (M-102) is a rabbit polyclonal antibody raised against amino acids 1-102 mapping at the N-terminus of FHOD3 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.

RESEARCH USE

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

APPLICATIONS

FHOD3 (M-102) is recommended for detection of FHOD3 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), 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).

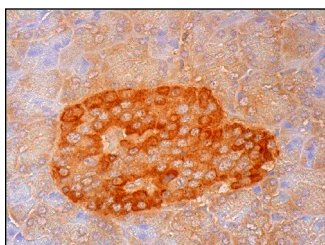
FHOD3 (M-102) is also recommended for detection of FHOD3 in additional species, including canine and bovine.

Suitable for use as control antibody for FHOD3 siRNA (h): sc-75015, FHOD3 siRNA (m): sc-75016, FHOD3 shRNA Plasmid (h): sc-75015-SH, FHOD3 shRNA Plasmid (m): sc-75016-SH, FHOD3 shRNA (h) Lentiviral Particles: sc-75015-V and FHOD3 shRNA (m) Lentiviral Particles: sc-75016-V.

Molecular Weight of FHOD3: 159 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

DATA



FHOD3 (M-102): sc-292238. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of exocrine glandular cells and islets of Langerhans.

STORAGE

Store at 4° C, ****DO 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.



Try **FHOD3 (G-5): sc-374601**, our highly recommended monoclonal alternative to FHOD3 (M-102).