SCFD2 (C-12): sc-136849



The Power to Question

BACKGROUND

SCFD2 (sec1 family domain containing 2), also known as STXBP1L1 (syntaxin-binding protein 1-like 1), is a 684 amino acid protein suggested to play a role in protein transport. Existing as two alternatively spliced isoforms, SCFD2 is a member of the STXBP/unc-18/SEC1 family and is encoded by a gene that maps to human chromosome 4q12. Chromosome 4 represents approximately 6% of the human genome and contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

REFERENCES

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- Dobson, C.M., et al. 2002. Identification of the gene responsible for the cblA complementation group of vitamin B12-responsive methylmalonic acidemia based on analysis of prokaryotic gene arrangements. Proc. Natl. Acad. Sci. USA 99: 15554-15559.

CHROMOSOMAL LOCATION

Genetic locus: SCFD2 (human) mapping to 4q12; Scfd2 (mouse) mapping to 5 C3.3.

SOURCE

SCFD2 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SCFD2 of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-136849 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SCFD2 (C-12) is recommended for detection of SCFD2 isoforms 1 and 2 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); non cross-reactive with SCFD1.

SCFD2 (C-12) is also recommended for detection of SCFD2 isoforms 1 and 2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for SCFD2 siRNA (h): sc-89255, SCFD2 siRNA (m): sc-153252, SCFD2 shRNA Plasmid (h): sc-89255-SH, SCFD2 shRNA Plasmid (m): sc-153252-SH, SCFD2 shRNA (h) Lentiviral Particles: sc-89255-V and SCFD2 shRNA (m) Lentiviral Particles: sc-153252-V.

Molecular Weight of SCFD2 isoforms: 75/70 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.

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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