

syntenin-2 (G-16): sc-69623

BACKGROUND

Syntenin-2, also known as SDCBP2 (syndecan binding protein (syntenin) 2), ST-2 or SITAC18, is a 292 amino acid protein that contains two PDZ (DHR) domains and functions as either a monomer or a homodimer that interacts with syntenin-1. Multiple isoforms of syntenin-2 exist and are encoded by a gene which maps to human chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome. Additionally, chromosome 20 contains a region with numerous genes which are thought important for seminal production and may be potential targets for male contraception.

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CHROMOSOMAL LOCATION

Genetic locus: *Sdcbp2* (mouse) mapping to 2 G3.

SOURCE

syntenin-2 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of syntenin-2 of mouse 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-69623 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

syntenin-2 (G-16) is recommended for detection of syntenin-2 of mouse and rat 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).

Suitable for use as control antibody for syntenin-2 siRNA (m): sc-76623, syntenin-2 shRNA Plasmid (m): sc-76623-SH and syntenin-2 shRNA (m) Lentiviral Particles: sc-76623-V.

Molecular Weight of human syntenin-2 α isoform: 37 kDa.

Molecular Weight of human syntenin-2 β isoform: 26 kDa.

Molecular Weight of rodent syntenin-2: 32 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.