

SH2D4B (F-16): sc-248582

BACKGROUND

SH2D4B (SH2 domain containing 4B) is a 431 amino acid protein that contains one SH2 domain, exists as three alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 10q23.1. Spanning nearly 135 million base pairs, chromosome 10 makes up approximately 4.5% of total DNA in cells and encodes nearly 1,200 genes. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

REFERENCES

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- Berger, P., et al. 2002. Molecular cell biology of Charcot-Marie-Tooth disease. *Neurogenetics* 4: 1-15.
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CHROMOSOMAL LOCATION

Genetic locus: SH2D4B (human) mapping to 10q23.1; Sh2d4b (mouse) mapping to 14 B.

SOURCE

SH2D4B (F-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SH2D4B 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-248582 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SH2D4B (F-16) is recommended for detection of SH2D4B 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 SH2D4A.

SH2D4B (F-16) is also recommended for detection of SH2D4B in additional species, including equine and canine.

Suitable for use as control antibody for SH2D4B siRNA (h): sc-90409, SH2D4B siRNA (m): sc-153430, SH2D4B shRNA Plasmid (h): sc-90409-SH, SH2D4B shRNA Plasmid (m): sc-153430-SH, SH2D4B shRNA (h) Lentiviral Particles: sc-90409-V and SH2D4B shRNA (m) Lentiviral Particles: sc-153430-V.

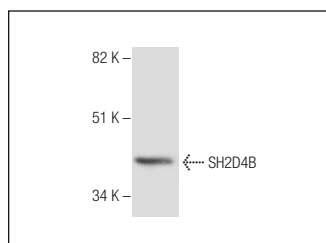
Molecular Weight of SH2D4B isoforms: 51/43/36 kDa.

Positive Controls: TT whole cell lysate.

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.

DATA



SH2D4B (F-16): sc-248582. Western blot analysis of SH2D4B expression in TT whole cell lysate.

RESEARCH USE

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