

SPTY2D1 (S-15): sc-248709

BACKGROUND

SPTY2D1 (SPT2 domain-containing protein 1), also known as protein SPT2 homolog or KU002155, is a 685 amino acid protein that belongs to the SPT2 family. Expressed as three isoforms produced by alternative splicing, SPTY2D1 is encoded by a gene that maps to human chromosome 11. With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded *Atm* gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. *Atm* mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and β -thalassemia are caused by HBB gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SPTY2D1 (human) mapping to 11p15.1; Spty2d1 (mouse) mapping to 7 B4.

SOURCE

SPTY2D1 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPTY2D1 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-248709 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SPTY2D1 (S-15) is recommended for detection of SPTY2D1 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).

SPTY2D1 (S-15) is also recommended for detection of SPTY2D1 in additional species, including equine and canine.

Suitable for use as control antibody for SPTY2D1 siRNA (h): sc-96336, SPTY2D1 siRNA (m): sc-153809, SPTY2D1 shRNA Plasmid (h): sc-96336-SH, SPTY2D1 shRNA Plasmid (m): sc-153809-SH, SPTY2D1 shRNA (h) Lentiviral Particles: sc-96336-V and SPTY2D1 shRNA (m) Lentiviral Particles: sc-153809-V.

Molecular Weight of SPTY2D1 isoforms: 76/74/40 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.

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.