

GPSM3 (L-16): sc-242954

BACKGROUND

GPSM3 (G-protein-signaling modulator 3), also known as AGS4, G18 or NG1, is a 160 amino acid cytoplasmic protein that contains 3 GoLoco domains. Expressed in liver, heart, lung and placenta, GPSM3 functions to interact with and regulate the activation of $G_i\alpha$ proteins, possibly playing a role in signaling cascades throughout the body. The gene encoding GPSM3 maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GPSM3 (human) mapping to 6p21.32; Gpsm3 (mouse) mapping to 17 B1.

SOURCE

GPSM3 (L-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GPSM3 of human origin.

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-242954 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

GPSM3 (L-16) is recommended for detection of GPSM3 of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 GPSM3 siRNA (h): sc-95457, GPSM3 siRNA (m): sc-145744, GPSM3 shRNA Plasmid (h): sc-95457-SH, GPSM3 shRNA Plasmid (m): sc-145744-SH, GPSM3 shRNA (h) Lentiviral Particles: sc-95457-V and GPSM3 shRNA (m) Lentiviral Particles: sc-145744-V.

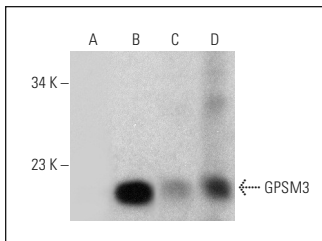
Molecular Weight of GPSM3: 18 kDa.

Positive Controls: THP-1 cell lysate: sc-2238 or HEL 92.1.7 cell lysate: sc-2270.

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



GPSM3 (L-16): sc-242954. Western blot analysis of GPSM3 expression in non-transfected 293T: sc-117752 (A), mouse GPSM3 transfected 293T: sc-120609 (B), THP-1 (C) and HEL 92.1.7 (D) whole cell lysates.

STORAGE

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

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.