SANTA CRUZ BIOTECHNOLOGY, INC.

SPINK4 (K-15): sc-79607

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

SPINK4 (serine peptidase inhibitor, Kazal type 4), also known as PEC-60, is an 86 amino acid secreted protein containing one kazal-like domain, which has been suggested to play a role in central nervous system disorders associated with dopamine dysregulation. Expressed in the gastrointestinal tract, central nervous system, bone marrow and peripheral blood, SPINK4 is moderately expressed in spleen and is encoded by a gene mapping to human chromosome 9p13.3. Human chromosome 9 houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SPINK4 (human) mapping to 9p13.3.

SOURCE

SPINK4 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPINK4 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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-79607 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SPINK4 (K-15) is recommended for detection of SPINK4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 SPINK4 siRNA (h): sc-76565, SPINK4 shRNA Plasmid (h): sc-76565-SH and SPINK4 shRNA (h) Lentiviral Particles: sc-76565-V.

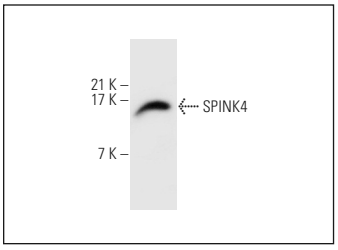
Molecular Weight of SPINK4: 9 kDa.

Positive Controls: Human small intestine extract: sc-364225.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



SPINK4 (K-15): sc-79607. Western blot analysis of SPINK4 expression in human small intestine tissue extract.

RESEARCH USE

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