SANTA CRUZ BIOTECHNOLOGY, INC.

ExoC3L (N-12): sc-136668



BACKGROUND

ExoC3L (exocyst complex component 3-like protein), also known as protein jiangli, is a 746 amino acid protein that belongs to the SEC6 family. Localizing to the cytoplasmic and secretory vesicle, ExoC3L colocalizes with Insulin granules and interacts with ExoC2, ExoC4 and ExoC5. Acting as part of the exocyst, ExoC3L may function in the regulation of Insulin granule exocytosis and is expressed in Insulin-secreting MIN6 cells, as well as various tissues including brain and pancreatic islets. The gene encoding ExoC3L maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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- Saito, T., et al. 2008. Involvement of Exoc3l, a protein structurally related to the exocyst subunit Sec6, in Insulin secretion. Biomed. Res. 29: 85-91.

CHROMOSOMAL LOCATION

Genetic locus: EXOC3L1 (human) mapping to 16q22.1; ExoC3I (mouse) mapping to 8 D3.

SOURCE

ExoC3L (N-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of ExoC3L of human origin.

PRODUCT

Each vial contains 100 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-136668 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ExoC3L (N-12) is recommended for detection of ExoC3L of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with ExoC3L2.

Suitable for use as control antibody for ExoC3L siRNA (h): sc-93361, ExoC3L siRNA (m): sc-144971, ExoC3L shRNA Plasmid (h): sc-93361-SH, ExoC3L shRNA Plasmid (m): sc-144971-SH, ExoC3L shRNA (h) Lentiviral Particles: sc-93361-V and ExoC3L shRNA (m) Lentiviral Particles: sc-144971-V.

Molecular Weight of ExoC3L: 82 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluo-rescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

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.