

ITPRIPL2 (E-16): sc-247214

BACKGROUND

ITPRIPL2 (inositol 1,4,5-triphosphate receptor-interacting protein-like 2) is a 535 amino acid single-pass type I membrane protein that belongs to the ITPRIP family. The gene encoding ITPRIPL2 maps to human chromosome 16p12.3 and mouse chromosome 7 F2. Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA, and is associated with a variety of genetic disorders. 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, though through the CREBBP gene which encodes a critical CREB binding protein. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene. An association with systemic lupus erythematosus and a number of other autoimmune disorders with the pericentromeric region of chromosome 16 has led to the identification of SLC5A11 as a potential autoimmune modifier.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ITPRIPL2 (human) mapping to 16p12.3; Itpripl2 (mouse) mapping to 7 F2.

SOURCE

ITPRIPL2 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of ITPRIPL2 of human origin.

RESEARCH USE

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

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-247214 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ITPRIPL2 (E-16) is recommended for detection of ITPRIPL2 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 ITPRIPL1.

ITPRIPL2 (E-16) is also recommended for detection of ITPRIPL2 in additional species, including canine and bovine.

Suitable for use as control antibody for ITPRIPL2 siRNA (h): sc-93099, ITPRIPL2 siRNA (m): sc-143220, ITPRIPL2 shRNA Plasmid (h): sc-93099-SH, ITPRIPL2 shRNA Plasmid (m): sc-143220-SH, ITPRIPL2 shRNA (h) Lentiviral Particles: sc-93099-V and ITPRIPL2 shRNA (m) Lentiviral Particles: sc-143220-V.

Molecular Weight of ITPRIPL2: 58 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.