

ITPRIPL1 (Q-14): sc-168223

BACKGROUND

ITPRIPL1 (inositol 1,4,5-triphosphate receptor-interacting protein-like 1), also known as KIAA1754L, is a 555 amino acid protein belonging to the ITPRIP family. ITPRIPL1 is a single-pass type I membrane protein expressed as two isoforms produced by alternative splicing events. The gene that encodes ITPRIPL1 maps to human chromosome 2, the second largest human chromosome, consisting of 237 million bases encoding over 1,400 genes and making up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome is due to mutations in the ALMS1 gene. It has been hypothesized that human chromosome 2 is the result of an ancient fusion of two ancestral chromosome due to its composition of a vestigial second centromere and vestigial telomeres.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ITPRIPL1 (human) mapping to 2q11.2; Itpripl1 (mouse) mapping to 2 F1.

SOURCE

ITPRIPL1 (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of ITPRIPL1 of human origin.

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-168223 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ITPRIPL1 (Q-14) is recommended for detection of ITPRIPL1 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 other ITPRIP family members.

ITPRIPL1 (Q-14) is also recommended for detection of ITPRIPL1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for ITPRIPL1 siRNA (h): sc-94465, ITPRIPL1 siRNA (m): sc-146460, ITPRIPL1 shRNA Plasmid (h): sc-94465-SH, ITPRIPL1 shRNA Plasmid (m): sc-146460-SH, ITPRIPL1 shRNA (h) Lentiviral Particles: sc-94465-V and ITPRIPL1 shRNA (m) Lentiviral Particles: sc-146460-V.

Molecular Weight of ITPRIPL1 isoforms: 63/64 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.

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.