

LANCL1 (H-45): sc-134677

BACKGROUND

LANCL1 (LanC lantibiotic synthetase component C-like 1), also known as p40 or GPR69A, is a 399 amino acid protein that localizes to both the cytoplasm and the membrane and belongs to the LanC-like protein family. Expressed ubiquitously with strong expression in heart, brain, kidney, pancreas, testis, ovary and skeletal muscle, LANCL1 interacts with Stomatin and may function as a peptide-modifying enzyme component in eukaryotic cells. The gene encoding LANCL1 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene, while the lipid metabolic disorder sitosterolemia is associated with defects in the ABCG5 and ABCG8 genes. Additionally, an extremely rare recessive genetic disorder, Alström syndrome, is caused by mutations in the ALMS1 gene, which maps to chromosome 2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LANCL1 (human) mapping to 2q34; Lancl1 (mouse) mapping to 1 C3.

RESEARCH USE

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

SOURCE

LANCL1 (H-45) is a rabbit polyclonal antibody raised against amino acids 1-45 mapping at the N-terminus of LANCL1 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.

APPLICATIONS

LANCL1 (H-45) is recommended for detection of LANCL1 of mouse, rat and 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).

LANCL1 (H-45) is also recommended for detection of LANCL1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for LANCL1 siRNA (h): sc-94288, LANCL1 siRNA (m): sc-146642, LANCL1 shRNA Plasmid (h): sc-94288-SH, LANCL1 shRNA Plasmid (m): sc-146642-SH, LANCL1 shRNA (h) Lentiviral Particles: sc-94288-V and LANCL1 shRNA (m) Lentiviral Particles: sc-146642-V.

Molecular Weight of LANCL1: 40 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: 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.

PROTOCOLS

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