

DOLPP1 (T-13): sc-138919

BACKGROUND

DOLPP1 (dolichyl pyrophosphate phosphatase 1), also known as LSFR2, is a 238 amino acid member of the dolichyldiphosphatase protein family. Localized to the endoplasmic reticulum membrane, DOLPP1 is involved in protein modification, specifically glycosylation. DOLPP1 hydrolyzes dolichyl diphosphate into dolichyl phosphate. DOLPP1 activity is required for efficient N-glycosylation and for maintaining optimal levels of dolichol-linked oligosaccharides. DOLPP1 has been found to not act on phosphatidate. The gene that encodes DOLPP1 maps to human chromosome 9, which consists of about 145 million bases and 4% of the human genome, encoding nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DOLPP1 (human) mapping to 9q34.11; Dolpp1 (mouse) mapping to 2 B.

SOURCE

DOLPP1 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DOLPP1 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.

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-138919 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DOLPP1 (T-13) is recommended for detection of DOLPP1 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).

DOLPP1 (T-13) is also recommended for detection of DOLPP1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DOLPP1 siRNA (h): sc-92552, DOLPP1 siRNA (m): sc-143142, DOLPP1 shRNA Plasmid (h): sc-92552-SH, DOLPP1 shRNA Plasmid (m): sc-143142-SH, DOLPP1 shRNA (h) Lentiviral Particles: sc-92552-V and DOLPP1 shRNA (m) Lentiviral Particles: sc-143142-V.

Molecular Weight of DOLPP1: 27 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.

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.