

PIH1D2 (L-19): sc-248254

BACKGROUND

PIH1D2 (PIH1 domain containing 2) is a 315 amino acid protein that belongs to the PIH1 family. Encoded by a gene that maps to human chromosome 11q23.1, PIH1D2 is one of five genes included in a novel germline SDHD deletion that is linked to an unusual sympathetic head and neck paraganglioma, a rare tumor arising either from sympathetic or parasympathetic-associated chromaffin tissue. With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up approximately 4% of human genomic DNA. Ataxia-telangiectasia, the blood disorders Sickle cell anemia and β thalassemia, Wilms' tumors, WAGR syndrome, Denys-Drash syndrome, Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are all associated with defects in chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Pih1d2 (mouse) mapping to 9 A5.3.

RESEARCH USE

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

SOURCE

PIH1D2 (L-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PIH1D2 of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-248254 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PIH1D2 (L-19) is recommended for detection of PIH1D2 of mouse and rat 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).

Suitable for use as control antibody for PIH1D2 siRNA (m): sc-152261, PIH1D2 shRNA Plasmid (m): sc-152261-SH and PIH1D2 shRNA (m) Lentiviral Particles: sc-152261-V.

Molecular Weight of PIH1D2: 36 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.