SANTA CRUZ BIOTECHNOLOGY, INC.

PAFAH1B2 (S-12): sc-168889

BACKGROUND

PAFAH1B2 (platelet-activating factor acetylhydrolase IB subunit β), also known as PAFAHB, is a 229 amino acid cytoplasmic protein that belongs to the GDSL lipolytic enzyme family and the platelet-activating factor acetylhydrolase IB β/γ subunits subfamily. A ubiquitously expressed catalytic subunit of the cytosolic PAFAH1B heterotrimeric complex, PAFAH1B2 inactivates PAF by removing the acetyl group at the sn-2 position. Along with the β subunit, PAFAH1B is made up of α and γ subunits. The gene that encodes PAFAH1B2 consists of approximately 32,628 bases and maps to human chromosome 11q23.3. Chromosome 11 houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that map to chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PAFAH1B2 (human) mapping to 11q23.3; Pafah1b2 (mouse) mapping to 9 A5.2.

SOURCE

PAFAH1B2 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PAFAH1B2 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-168889 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PAFAH1B2 (S-12) is recommended for detection of PAFAH1B2 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 PAFAH1B3.

PAFAH1B2 (S-12) is also recommended for detection of PAFAH1B2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PAFAH1B2 siRNA (h): sc-96312, PAFAH1B2 siRNA (m): sc-151992, PAFAH1B2 shRNA Plasmid (h): sc-96312-SH, PAFAH1B2 shRNA Plasmid (m): sc-151992-SH, PAFAH1B2 shRNA (h) Lentiviral Particles: sc-96312-V and PAFAH1B2 shRNA (m) Lentiviral Particles: sc-151992-V.

Molecular Weight of PAFAH1B2: 30 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.

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.