

PAFAH1B2 (E-9): sc-393217

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.

CHROMOSOMAL LOCATION

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

SOURCE

PAFAH1B2 (E-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 10-31 near the N-terminus of PAFAH1B2 of human origin.

PRODUCT

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

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

PAFAH1B2 (E-9) is recommended for detection of PAFAH1B2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PAFAH1B2 (E-9) 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.

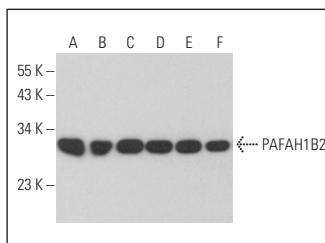
Molecular Weight of PAFAH1B2: 30 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Jurkat whole cell lysate: sc-2204 or IMR-32 cell lysate: sc-2409.

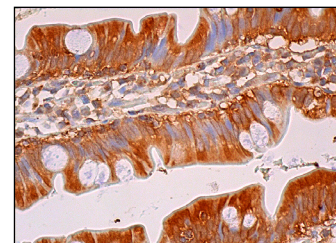
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohisto-mount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



PAFAH1B2 (E-9): sc-393217. Western blot analysis of PAFAH1B2 expression in Hep G2 (A), Jurkat (B), IMR-32 (C), RPE-J (D), C6 (E) and 3T3-L1 (F) whole cell lysates.



PAFAH1B2 (E-9): sc-393217. Immunoperoxidase staining of formalin fixed, paraffin-embedded human small intestine tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Kim, G.R., et al. 2021. MicroRNA-212-5p and its target PAFAH1B2 suppress vascular proliferation and contraction via the downregulation of RhoA. PLoS ONE 16: e0249146.

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 for detailed protocols and support products.