

PAF acetylhydrolase 2 (B-6): sc-390508

BACKGROUND

PAF acetylhydrolase 2 (platelet-activating factor acetylhydrolase 2), also known as PAFAH2, is a 392 amino acid cytoplasmic protein that belongs to the serine esterase family. PAF acetylhydrolase 2 exists as a monomer that has a marked selectivity for phospholipids with short acyl chains at the sn-2 position. While broadly expressed in many different tissues, PAF acetylhydrolase 2 expression is highest in B- and T-lymphocytes. In brain, PAF acetylhydrolase 2 expression is restricted to amygdala and frontal cortex. The gene that encodes PAF acetylhydrolase 2 consists of approximately 38,391 bases and maps to human chromosome 1p36.11. Comprising nearly 8% of the human genome, chromosome 1 spans 260 million base pairs, contains over 3,000 genes and houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

REFERENCES

- Hattori, K., et al. 1996. cDNA cloning and expression of intracellular platelet-activating factor (PAF) acetylhydrolase II. Its homology with plasma PAF acetylhydrolase. *J. Biol. Chem.* 271: 33032-33038.
- Stafforini, D.M., et al. 1997. Platelet-activating factor acetylhydrolases. *J. Biol. Chem.* 272: 17895-17898.
- Online Mendelian Inheritance in Man, OMIM™. 1998. Johns Hopkins University, Baltimore, MD. MIM Number: 602344. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: PAFAH2 (human) mapping to 1p36.11; Pafah2 (mouse) mapping to 4 D3.

SOURCE

PAF acetylhydrolase 2 (B-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 167-201 within an internal region of PAF acetylhydrolase 2 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PAF acetylhydrolase 2 (B-6) is available conjugated to agarose (sc-390508 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390508 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390508 PE), fluorescein (sc-390508 FITC), Alexa Fluor® 488 (sc-390508 AF488), Alexa Fluor® 546 (sc-390508 AF546), Alexa Fluor® 594 (sc-390508 AF594) or Alexa Fluor® 647 (sc-390508 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390508 AF680) or Alexa Fluor® 790 (sc-390508 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390508 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

PAF acetylhydrolase 2 (B-6) is recommended for detection of PAF acetylhydrolase 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for PAF acetylhydrolase 2 siRNA (h): sc-88153, PAF acetylhydrolase 2 siRNA (m): sc-151991, PAF acetylhydrolase 2 shRNA Plasmid (h): sc-88153-SH, PAF acetylhydrolase 2 shRNA Plasmid (m): sc-151991-SH, PAF acetylhydrolase 2 shRNA (h) Lentiviral Particles: sc-88153-V and PAF acetylhydrolase 2 shRNA (m) Lentiviral Particles: sc-151991-V.

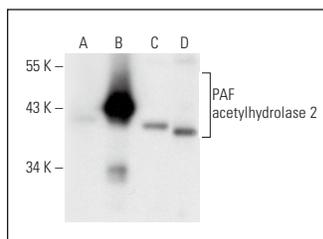
Molecular Weight of PAF acetylhydrolase 2: 43 kDa.

Positive Controls: PAF acetylhydrolase 2 (h2): 293T Lysate: sc-172647, KNRK whole cell lysate: sc-2214 or HeLa whole cell lysate: sc-2200.

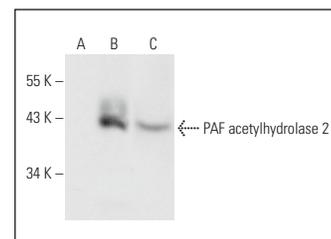
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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 A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



PAF acetylhydrolase 2 (B-6): sc-390508. Western blot analysis of PAF acetylhydrolase 2 expression in non-transfected 293T: sc-117752 (A), human PAF acetylhydrolase 2 transfected 293T: sc-172647 (B), HeLa (C) and KNRK (D) whole cell lysates.



PAF acetylhydrolase 2 (B-6): sc-390508. Western blot analysis of PAF acetylhydrolase 2 expression in non-transfected 293T: sc-117752 (A), human PAF acetylhydrolase 2 transfected 293T: sc-172325 (B) and HeLa (C) whole cell lysates.

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.