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# PAF acetylhydrolase 2 (h2): 293T Lysate: sc-172647

## 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

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- Umemura, K., et al. 2007. Neuroprotective role of transgenic PAF-acetylhydrolase II in mouse models of focal cerebral ischemia. *Stroke* 38: 1063-1068.
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## CHROMOSOMAL LOCATION

Genetic locus: PAFAH2 (human) mapping to 1p36.11.

## PRODUCT

PAF acetylhydrolase 2 (h2): 293T Lysate represents a lysate of human PAF acetylhydrolase 2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

PAF acetylhydrolase 2 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive PAF acetylhydrolase 2 antibodies. Recommended use: 10-20 µl per lane.

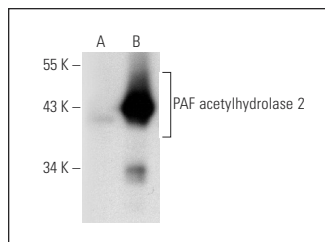
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PAF acetylhydrolase 2 (B-6): sc-390508 is recommended as a positive control antibody for Western Blot analysis of enhanced human PAF acetylhydrolase 2 expression in PAF acetylhydrolase 2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## 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<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.