



# PAF acetylhydrolase (E-15): sc-23022

## BACKGROUND

The Platelet Activating Factor (PAF) Acetylhydrolases catalyze hydrolysis of the sn-2 ester bond of PAF and related pro-inflammatory phospholipids and thus attenuate their bioactivity. The family of PAF Acetylhydrolases include one secreted plasma isozyme and four intracellular proteins. The intra-cellular isozymes are distinguished by differences in their primary sequence, tissue localization, subunit composition, and substrate preferences. The most thoroughly characterized intracellular isoform, Ib, contains two homologous (63% identity) 26 kDa catalytic subunits ( $\alpha 1$  and  $\alpha 2$ ), which harbor all the enzyme's activity, and a regulatory  $\beta$  subunit. The  $\alpha$  subunits readily associate with very high affinity to form homodimers, and this dimerization is essential for both stability and catalytic activity. The  $\beta$  subunit is a product of the LIS1 gene, mutations of which cause Miller-Dieker lissencephaly.

## REFERENCES

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## SOURCE

PAF acetylhydrolase (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of mature chain of PAF acetylhydrolase of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-23022 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

PAF acetylhydrolase (E-15) is recommended for detection of precursor and mature chain of PAF acetylhydrolase of 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).

## 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.

## 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) or our catalog for detailed protocols and support products.