PAF acetylhydrolase (E-15): sc-23022

**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 1:30-1:300).

**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 or our catalog for detailed protocols and support products.

**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 (α1 and α2), which harbor all the enzyme’s activity, and a regulatory β subunit. The α subunits readily associate with very high affinity to form homodimers, and this dimerization is essential for both stability and catalytic activity. The β subunit is a product of the LIS1 gene, mutations of which cause Miller-Dieker lissencephaly.

**REFERENCES**


**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 µg 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 µg 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.