

AOAH Small Subunit (M-122): sc-135110

BACKGROUND

AOAH (acyloxyacyl hydrolase) is a 575 amino acid protein that contains one saposin B-type domain. AOAH is cleaved into two chains, designated AOAH small subunit and AOAH large subunit, both of which contain many cysteine residues that may form disulfide bridges. Mature AOAH is a heterodimer that removes the secondary (acyloxyacyl-linked) fatty acyl chains from the lipid A region of bacterial endotoxins. AOAH is also thought to regulate host inflammatory responses to gram-negative bacterial invasion. The larger subunit of AOAH contains a Gly-X-Ser-X-Gly amino acid sequence that is found at the active site of many lipases, whereas the small subunit contains an amino acid sequence similar to saposins, which are cofactors for sphingolipid glycohydrolases. Both subunits are required in the proper orientation for specific catalytic activity toward LPS and glycerophosphatidylcholine.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Aoah (mouse) mapping to 13 A2.

RESEARCH USE

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

SOURCE

AOAH Small Subunit (M-122) is a rabbit polyclonal antibody raised against amino acids 34-155 mapping near the N-terminus of AOAH precursor protein of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

AOAH Small Subunit (M-122) is recommended for detection of AOAH small subunit of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, 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).

Molecular Weight of AOAH Small Subunit: 14 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.