

# AOAH (D-15): sc-163692

## 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 gene that encodes AOAH maps to human chromosome 7, which is about 158 million bases long, encodes over 1000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: AOAH (human) mapping to 7p14.2; Aoah (mouse) mapping to 13 A2.

## SOURCE

AOAH (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AOAH of human origin.

## STORAGE

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

## 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-163692 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

AOAH (D-15) is recommended for detection of AOAH of mouse, rat and 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).

AOAH (D-15) is also recommended for detection of AOAH in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AOAH siRNA (h): sc-89739, AOAH siRNA (m): sc-141127, AOAH shRNA Plasmid (h): sc-89739-SH, AOAH shRNA Plasmid (m): sc-141127-SH, AOAH shRNA (h) Lentiviral Particles: sc-89739-V and AOAH shRNA (m) Lentiviral Particles: sc-141127-V.

Molecular Weight of AOAH: 65 kDa.

## 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.