

# Mboat4 (mouse) Antibody (internal region)

Peptide-affinity purified goat antibody Catalog # AF3498a

## **Specification**

# Mboat4 (mouse) Antibody (internal region) - Product Information

Application WB

Primary Accession <u>096T53</u>

Other Accession <u>NP\_001119786.1</u>, <u>619373</u>, <u>234155 (mouse)</u>

Reactivity Mouse

Predicted Human, Pig, Cow

Host Goat
Clonality Polyclonal
Concentration 0.5 mg/ml

Isotype IgG
Calculated MW 49716

# Mboat4 (mouse) Antibody (internal region) - Additional Information

#### **Gene ID** 619373

#### **Other Names**

Ghrelin O-acyltransferase, 2.3.1.-, Membrane-bound O-acyltransferase domain-containing protein 4, O-acyltransferase domain-containing protein 4, MBOAT4, GOAT, OACT4

#### **Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

Mboat4 (mouse) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

## Mboat4 (mouse) Antibody (internal region) - Protein Information

Name MBOAT4 (HGNC:32311)

Synonyms GOAT, OACT4

#### **Function**

Catalyzes ghrelin acylation at 'Ser-3' using preferentially octanoyl-CoA, hexanoyl-CoA and decanoyl-CoA as acyl-CoA donors leading to ghrelin activity (PubMed:<a href="http://www.uniprot.org/citations/24045953" target="\_blank">24045953</a>, PubMed:<a href="http://www.uniprot.org/citations/18443287" target="\_blank">18443287</a>, PubMed:<a



href="http://www.uniprot.org/citations/25562443" target="\_blank">25562443</a>, PubMed:<a href="http://www.uniprot.org/citations/28134508" target="\_blank">28134508</a>). In vitro uses also acyl-CoA donors of different lengths from short-chain (C2) to long-chain fatty acids (C16) knowing that acyl-CoA donors from butanoyl-CoA (C4) to dodecanoyl-CoA (C12) are more efficient compared to longer acyl-CoA donors, such as myristoyl- CoA (C14) and palmitoyl-CoA (C16) that are not efficient (PubMed:<a href="http://www.uniprot.org/citations/18443287" target="blank">18443287</a>).

#### **Cellular Location**

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P0C7A3}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P0C7A3}

#### **Tissue Location**

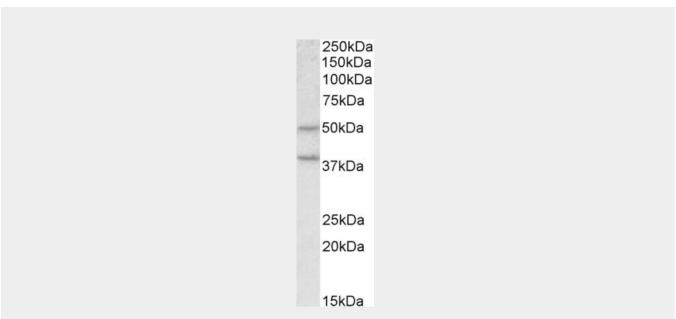
Expressed predominantly in stomach with moderate levels in pancreas and relatively low levels in most other tissues

# Mboat4 (mouse) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

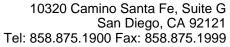
# Mboat4 (mouse) Antibody (internal region) - Images



AF3498a (0.5  $\mu$ g/ml) staining of Mouse Pancreas lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Mboat4 (mouse) Antibody (internal region) - References

Production of n-octanoyl-modified ghrelin in cultured cells requires prohormone processing





protease and ghrelin O-acyltransferase, as well as n-octanoic acid. Takahashi T, Ida T, Sato T, Nakashima Y, Nakamura Y, Tsuji A, Kojima M, Journal of biochemistry 2009 Nov 146 (5): 675-82. PMID: 19628676