

### FKSG89 / MBOAT4 Antibody (Internal)

Rabbit Polyclonal Antibody Catalog # ALS11200

## **Specification**

## FKSG89 / MBOAT4 Antibody (Internal) - Product Information

Application IHC-P
Primary Accession Q96T53
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 50kDa KDa
Dilution IHC-P~~N/A

## FKSG89 / MBOAT4 Antibody (Internal) - 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

# **Target/Specificity**

Human MBOAT4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

### **Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

#### **Precautions**

FKSG89 / MBOAT4 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

# FKSG89 / MBOAT4 Antibody (Internal) - 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/18443287" target="\_blank">18443287</a>, PubMed:<a href="http://www.uniprot.org/citations/24045953" target="\_blank">24045953</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 also uses 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**

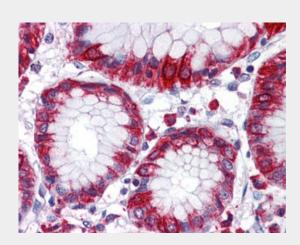
Expressed predominantly in stomach with moderate levels in pancreas and relatively low levels in most other tissues

## FKSG89 / MBOAT4 Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# FKSG89 / MBOAT4 Antibody (Internal) - Images



Anti-MBOAT4 antibody ALS11200 IHC of human stomach.

## FKSG89 / MBOAT4 Antibody (Internal) - Background

Mediates the octanoylation of ghrelin at 'Ser-3'. Can use a variety of fatty acids as substrates including octanoic acid, decanoic acid and tetradecanoic acid.

### FKSG89 / MBOAT4 Antibody (Internal) - References

Gutierrez J.A., et al. Proc. Natl. Acad. Sci. U.S.A. 105:6320-6325(2008). Wang Y.-G., et al. Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases. Nusbaum C., et al. Nature 439:331-335(2006).