

**FKSG89 / MBOAT4 Antibody (Internal)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11200****Specification**

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

Application	IHC
Primary Accession	<a href="#">O96T53</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50kDa KDa

**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/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}

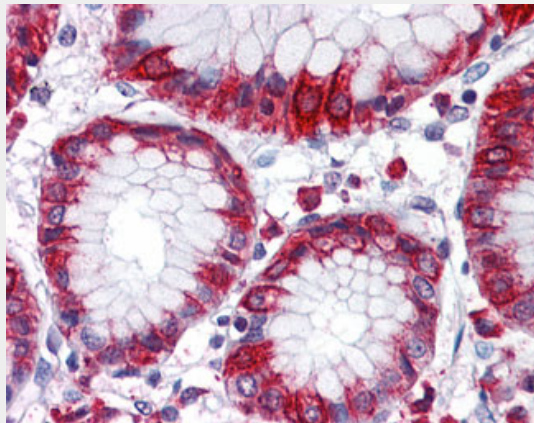
**Tissue Location**

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

**FKSG89 / MBOAT4 Antibody (Internal) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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).