



Rabbit Anti-MBOAT4 antibody

SL13355R

Product Name:	MBOAT4
Chinese Name:	脑肠肽O酰基转移酶/Ghrelin O acyltransferase抗体
Alias:	FKSG89; ghrelin o transferas; Ghrelin O-acyltransferase; GOAT; MBOA4_HUMAN; Mboat4; Membrane-bound O-acyltransferase domain-containing protein 4; O-acyltransferase (membrane bound) domain containing 4; O-acyltransferase domain-containing protein 4; OACT4.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Horse,Rabbit,Monkey,Gorilla
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Ghrelin O acyltransferase:101-200/435
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	MBOAT4 (membrane-bound O-acyltransferase domain-containing protein 4, Ghrelin O-acyltransferase) is a 435 amino acid, multi-pass membrane protein that belongs to the membrane-bound acyltransferase family. MBOAT4 functions as an enzyme that attaches

an octanoate fatty acid to serine-3 of ghrelin. Ghrelin is a very small, appetite-stimulating hormone secreted by the food-deprived stomach. MBOAT4 can use a variety of fatty acids as substrates including octanoic acid, decanoic acid and tetradecanoic acid. MBOAT4 expression, consistent with its function, is mainly in the stomach and intestines. Due to its primary function, MBOAT4 is a candidate for obesity and appetite suppression studies.

Function:

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.

Subcellular Location:

Endoplasmic reticulum membrane; Multi-pass membrane protein.

Tissue Specificity:

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

Similarity:

Belongs to the membrane-bound acyltransferase family.

SWISS:

Q96T53

Gene ID:

619373

Database links:

[Entrez Gene: 619373](#)Human

[Entrez Gene: 234155](#)Mouse

[Omim: 611940](#)Human

[SwissProt: Q96T53](#)Human

[SwissProt: P0C7A3](#)Mouse

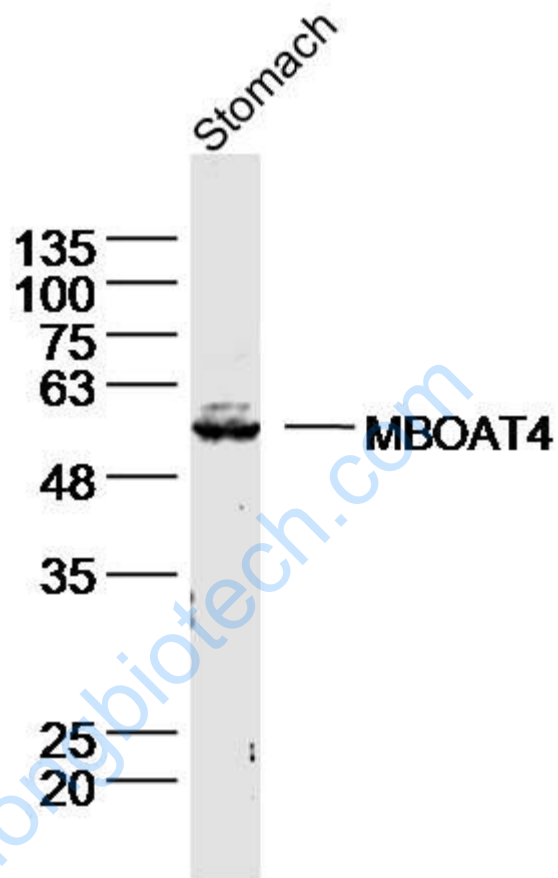
[Unigene: 627194](#)Human

[Unigene: 324008](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



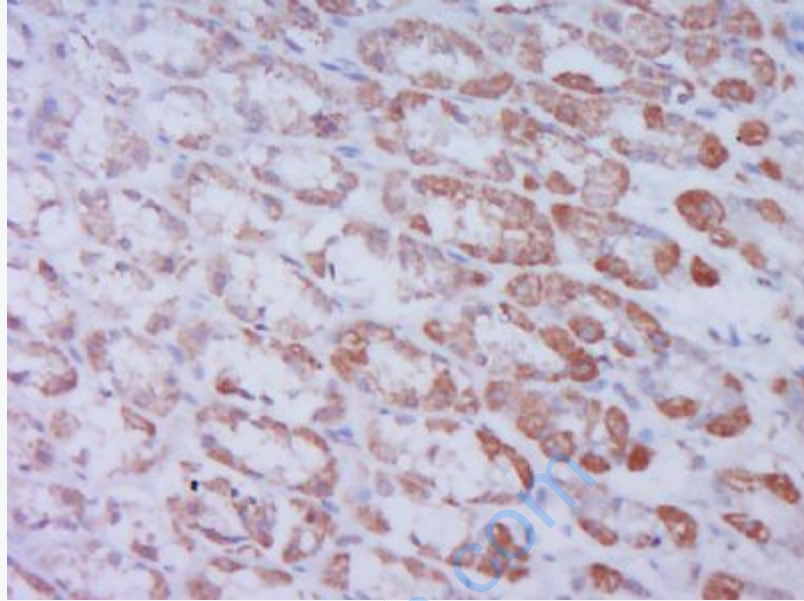
Sample: stomach (mouse) Lysate at 40 ug

Primary: Anti- MBOAT4(SL13355R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50kD

Observed band size: 55 kD



Paraformaldehyde-fixed, paraffin embedded (Rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MBOAT4) Polyclonal Antibody, Unconjugated (SL13355R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.