



Rabbit Anti-HHATL antibody

SL12315R

Product Name:	HHATL
Chinese Name:	甘油吸收/TransporterGUP1抗体
Alias:	C3orf3; Glycerol uptake/transporter homolog; GUP1; GUP1 glycerol uptake/transporter homolog; Hedgehog acyltransferase like; Hedgehog acyltransferase-like protein; Hhatl; HHATL_HUMAN; KIAA1173; MBOAT3; Membrane bound O acyltransferase domain containing 3; MSTP002; OACT3; Protein-cysteine N-palmitoyltransferase HHAT-like protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
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:	57kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from Human HHATL/GUP1:25-125/504
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:	GUP1 is a 504 amino acid multipass membrane protein of the endoplasmic reticulum that functions as a membrane bound O-acyltransferase. With specific expression in heart, GUP1 negatively regulates amino-terminal palmitoylation of Shh by HHAT, a

protein that is required for Shh signaling. Deletion of the gene encoding GUP1 results in higher sensibility to specific sphingolipid biosynthesis inhibitors and resistance to ergosterol biosynthesis inhibitors, indicating that GUP1 is an essential component in lipid metabolism. Also, GUP1 also seems to be important for cell wall assembly and stability due to evidence in *Saccharomyces cerevisiae* GUP1 mutants, which exhibit altered plasma membrane lipid composition and membrane potential.

Function:

Negatively regulates N-terminal palmitoylation of SHH by HHAT/SKN.

Subunit:

Interacts with SHH (By similarity).

Subcellular Location:

Endoplasmic reticulum membrane.

Tissue Specificity:

Heart-specific.

Similarity:

Belongs to the membrane-bound acyltransferase family. HHAT subfamily.

SWISS:

Q9HCP6

Gene ID:

57467

Database links:

[Entrez Gene: 57467](#) Human

[Entrez Gene: 74770](#) Mouse

[Entrez Gene: 301073](#) Rat

[Omim: 608116](#) Human

[SwissProt: Q9HCP6](#) Human

[SwissProt: Q9D1G3](#) Mouse

[Unigene: 476041](#) Human

Important Note:

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