

HHATL Antibody

Catalog # ASC11464

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9HCP6
Other Accession	NP_065758 , 239582769
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	56703
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	HHATL antibody can be used for detection of HHATL by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 2.5 μ g/mL.

Additional Information

Gene ID	57467
Other Names	Protein-cysteine N-palmitoyltransferase HHAT-like protein, Glycerol uptake/transporter homolog, Hedgehog acyltransferase-like protein, HHATL, C3orf3, GUP1, KIAA1173
Target/Specificity	HHATL;
Reconstitution & Storage	HHATL antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	HHATL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HHATL
Synonyms	C3orf3, GUP1, KIAA1173
Function	Negatively regulates N-terminal palmitoylation of SHH by HHAT/SKN.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Heart-specific..

Background

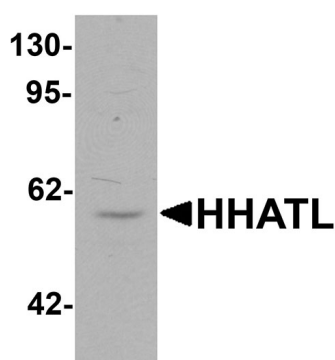
HHATL Antibody: The Protein-cysteine N-palmitoyltransferase HHAT-like protein (HHATL), also known as the mammalian glycerol uptake/transporter 1 (Gup1) is a homolog of the *S. cerevisiae* Gup1. It is an endoplasmic reticulum (ER) membrane protein that co-localizes with the mammalian hedgehog acyltransferase Skn and interferes with its N-terminal palmitoylation of Sonic hedgehog (SHH), suggesting that HHATL acts as a negative regulator for N-terminal palmitoylation of SHH. HHATL is highly expressed in normal skin, but becomes down-regulated in skin squamous cell carcinoma, suggesting it may play a role in its development.

References

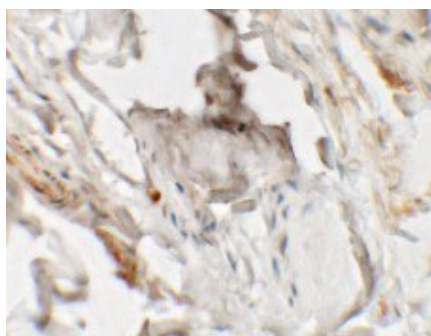
Abe Y, Kita Y, and Niikura T. Mammalian Gup1, a homolog of *Saccharomyces cerevisiae* glycerol uptake/transporter 1, acts as a negative regulator for N-palmitoylation of Sonic hedgehog. *FEBS J.* 2008; 275:318-31.

Zhang SQ, Tian X, Luo YW, et al. Expression, clinical and pathological significance of KIAA1173 gene in skin squamous cell carcinoma. *Zhonghua Yi Xue Za Zhi* 2010; 90:1243-6.

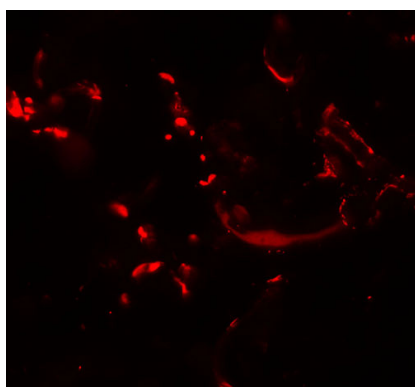
Images



Western blot analysis of HHATL in 3T3 cell lysate with HHATL antibody at 1 $\mu\text{g/mL}$.



Immunohistochemistry of HHATL in human skin tissue with HHATL antibody at 2.5 $\mu\text{g/mL}$.



Immunofluorescence of HHATL in human skin tissue with HHATL antibody at 20 $\mu\text{g/mL}$.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.