SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-ZDHHC3 antibody

SL12034R

Product Name	ZDHHC3
Chinese Name	棕榈酰转移酶 GODZ 抗体
Alias	DHHC-3; GABA-A receptor-associated membrane protein 1; Golgi-specific DHHC zinc finger protein; Gramp1; Palmitoyltransferase ZDHHC3; Protein DHHC1; ZDHC3_HUMAN; Zdhhc3; Zinc finger DHHC domain-containing protein 3; Zinc finger protein 373; ZNF373.
Research Area	Neurobiology Signal transduction The cell membrane 受体 Zinc finger protein G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat, (predicted: Dog, Cow, Horse, Sheep,)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	34kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GODZ/ZNF373: 201-299/299
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Product Detail

Golgi-specific DHHC (Asp-His-His-Cys) zinc finger protein (GODZ), also known as, Palmitoyltransferase ZDHHC3 or Zinc finger protein 373, is a 327 amino acid protein member of the DHHC palmitoyltransferase family. Localized to the Golgi apparatus membrane, GODZ contains one DHHC-type zinc finger, which is necessary for its palmitoyltransferase activity. GODZ has been implicated in the palmitoylation and regulated trafficking of diverse substrates that function various inhibitory and excitatory synapses. Specifically, it palmitoylates the gamma subunit 2 of GABA(A) receptors, which leads to normal synaptic GABAergic inhibitory function. GODZ also palmitoylates glutamate receptors GRIA1 and GRIA2, which leads to their retention in Golgi. Two isoforms of GODZ exist as a result of alternative splicing events.

Function:
Palmitoyltransferase with broad specificity. Palmitoylates GABA receptors on their gamma subunit (GABRG1, GABRG2 and GABRG3), which regulates synaptic clustering and/or cell surface stability. Palmitoylates glutamate receptors GRIA1 and GRIA2, which leads to their retention in Golgi.

Subcellular Location:
Golgi apparatus membrane.

Post-translational modifications:
Autopalmitoylated.

Similarity:
Belongs to the DHHC palmitoyltransferase family.
Contains 1 DHHC-type zinc finger.

SWISS:
Q9NYG2

Gene ID:
51304

Database links:

Entrez Gene: 51304 Human

Entrez Gene: 69035 Mouse

Entrez Gene: 301081 Rat

SwissProt: Q9NYG2 Human

SwissProt: Q8R173 Mouse

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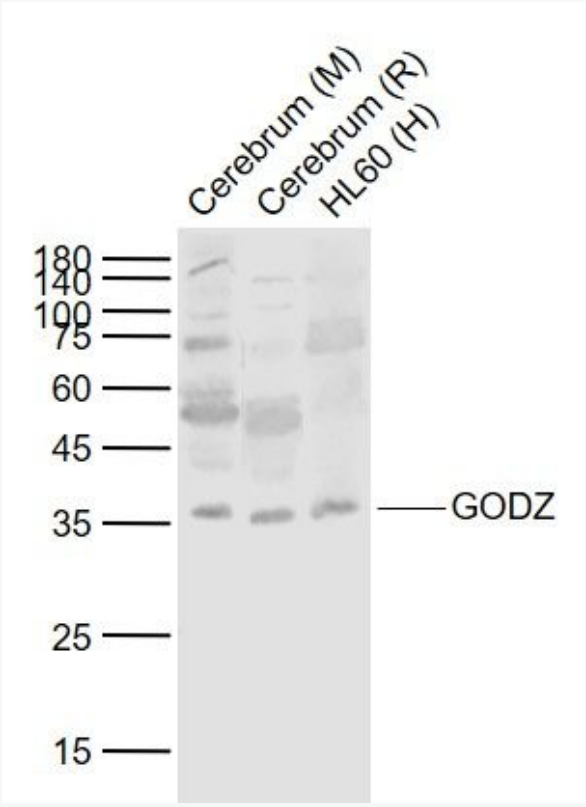
Unigene: 61430 Human

Unigene: 28300 Mouse

Unigene: 8573 Rat

Product Picture



Sample:

Lane 1: Mouse Cerebrum tissue lysates

Lane 2: Rat Cerebrum tissue lysates

Lane 3: Human HL60 cell lysates

Primary: Anti-GODZ/ZDHHC3 (SL12034R) at 1/1000 dilution

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

Predicted band size: 37 kD

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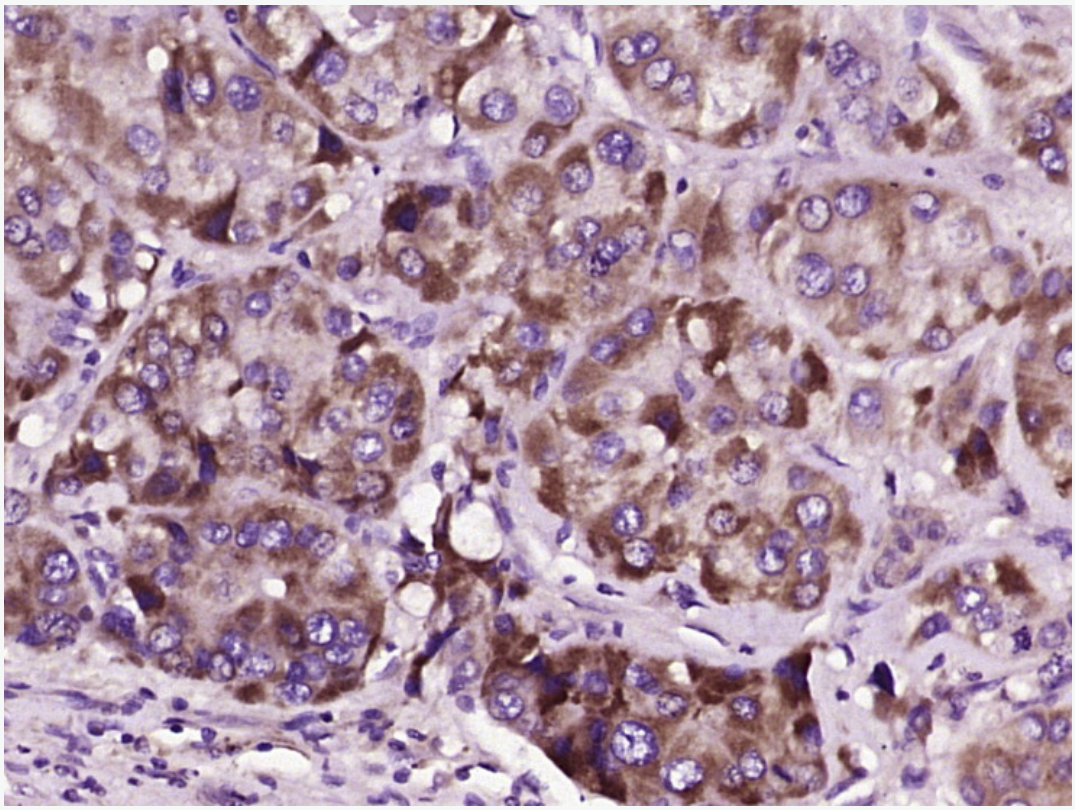
Observed band size: 37 kD



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); 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 (GODZ) Polyclonal Antibody, Unconjugated (SL12034R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.