

Recombinant Human ZDHHC2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ZDHHC2-3413H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ZDHHC2 MS Standard C13 and N15-labeled recombinant protein (NP_057437) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates and is involved in a variety of cellular processes. Has no stringent fatty acid selectivity and in addition to palmitate can also transfer onto target proteins myristate from tetradecanoyl-CoA and stearate from octadecanoyl-CoA. In the nervous system, plays a role in long term synaptic potentiation by palmitoylating AKAP5 through which it regulates protein trafficking from the dendritic recycling endosomes to the plasma membrane and controls both structural and functional plasticity at excitatory synapses. In dendrites, mediates the palmitoylation of DLG4 when synaptic activity decreases and induces synaptic clustering of DLG4 and associated AMPA-type glutamate receptors. Also mediates the de novo and turnover palmitoylation of RGS7BP, a shuttle for Gi/o-specific GTPase-activating proteins/GAPs, promoting its localization to the plasma membrane in response to the activation of G protein-coupled receptors. Through the localization of these GTPase-activating proteins/GAPs, it also probably plays a role in G protein-coupled receptors signaling in neurons. Also probably plays a role in cell adhesion by palmitoylating CD9 and CD151 to regulate their expression and function. Palmitoylates the

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endoplasmic reticulum protein CKAP4 and regulates its localization to the plasma membrane. Could also palmitoylate LCK and regulate its localization to the plasma membrane.

Molecular Mass 42 kDa

AA Sequence

MAPSGPGSSARRRCRRVLYWIPVVFITLLLGWSYYAYAIQLCIVSMENGEQVVCLM
AYHLLFAMFVWSYWKTIPTLPMNPSKEFHLSYAEKDLLEREPRGEAHQEVLRRRAK
DLPIYTRTMSGAIRYCDRCQLIKPDRCHHCSVCDKILKMDHHCPWVNNCVGFSNY
KFFLLFLAYSLLYCLFIAATDLQYFIKFWTNGLPDTQAKFHIMFLFFAAAMFSVLSLSLF
GYHCWLVSKNKSTLEAFRSPVFRHGTDKNGFSLGFSKNMRQVFGDEKKYWLLPIFS
SLGDGCSFPTCLVNQDPEQASTPAGLNSTAKNLENHQFPAKPLRESQSHLLTDSQS
WTESSINPGKCKAGMSNPALTMENETTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ZDHHC2 zinc finger DHHC-type palmitoyltransferase 2 [Homo sapiens (human)]

Official Symbol ZDHHC2

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Synonyms

ZDHHC2; zinc finger DHHC-type palmitoyltransferase 2; DHHC2; ZNF372; palmitoyltransferase ZDHHC2; DHHC-2; acyltransferase ZDHHC2; ream; rec; reduced expression associated with metastasis protein; reduced expression in cancer protein; testis tissue sperm-binding protein Li 56e; zinc finger DHHC domain-containing protein 2; zinc finger DHHC-type containing 2; zinc finger protein 372; zinc finger, DHHC domain containing 2; EC 2.3.1.225

Gene ID

51201

mRNA Refseq

NM_016353

Protein Refseq

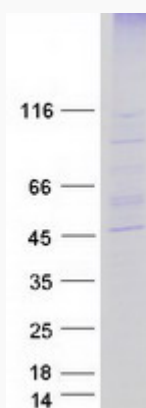
NP_057437

MIM

618621

UniProt ID

Q9UIJ5

SDS-PAGE


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