

Recombinant Mouse Zdhhc2 Protein, Myc/DDK-tagged

Cat. No. Zdhhc2-7071M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse zinc finger, DHHC domain containing 2 (Zdhhc2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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 (Probable). 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 endoplasmic reticulum protein CKAP4 and regulates its localization to the plasma

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	membrane. Could also palmitoylate LCK and regulate its localization to the plasma membrane.
Molecular Mass	42 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Zdhhc2 zinc finger, DHHC domain containing 2 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Zdhhc2
Synonyms	Zdhhc2; zinc finger, DHHC domain containing 2; DHHC-2; 5730415P04Rik; 6430583A19Rik; palmitoyltransferase ZDHHC2; acyltransferase ZDHHC2; zinc finger DHHC domain-containing protein 2; EC 2.3.1.225
Gene ID	70546
mRNA Refseq	NM_178395
Protein Refseq	NP_848482

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UniProt ID

P59267

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