10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DHHC-7 Polyclonal Antibody

Catalog # AP69526

Product Information

Application	WB, E
Primary Accession	Q9NXF8
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35140

Additional Information

Gene ID	55625
Other Names	ZDHHC7; ZNF370; Palmitoyltransferase ZDHHC7; Zinc finger DHHC domain-containing protein 7; DHHC-7; Zinc finger protein 370
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

Name	ZDHHC7 (HGNC:18459)
Function	Golgi-localized palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates and therefore functions in several unrelated biological processes (PubMed:22031296, PubMed:27380321, PubMed:28196865). 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 (By similarity). Palmitoylates sex steroid hormone receptors, including ESR1, PGR and AR, thereby regulating their targeting to the plasma membrane and their function in rapid intracellular signaling upon binding of sex hormones (PubMed:22031296). Palmitoylates GNAQ, a heterotrimeric G protein, regulating its dynamic localization at the plasma membrane and is thereby involved in GNAQ- dependent G protein-coupled receptor signaling pathways (PubMed:19001095). Also functions in ligand-induced cell death by regulating the FAS signaling pathway through the palmitoylation and stabilization of the receptor at the plasma membrane (PubMed:25301068). In epithelial cells, palmitoylates SCRIB and regulates its localization to the plasma membrane, regulating indirectly cell polarity and differentiation (PubMed:27380321). Also

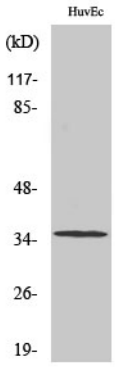
palmitoylates JAM3 and promotes its expression at tight junctions and regulates its function in cell migration (PubMed:28196865). Palmitoylates the glucose transporter GLUT4/SLC2A4 and controls the insulin-dependent translocation of GLUT4 to the plasma membrane (By similarity). In brain, could also palmitoylate SNAP25 and DLG4/PSD95 (By similarity). Could also palmitoylate DNAJC5 and regulate its localization to the Golgi membrane (By similarity). Could also palmitoylate NCDN (By similarity). May play a role in follicle stimulation hormone (FSH) activation of testicular Sertoli cells (By similarity). Activates pyroptosis by catalyzing palmitoylation of gasdermin-D (GSDMD) (By similarity).

Cellular Location Golgi apparatus membrane; Multi-pass membrane protein

Background

Palmitoyltransferase with broad specificity (PubMed: 22031296, PubMed:28196865). Palmitoylates JAM3 (PubMed:28196865). Palmitoylates SNAP25 and DLG4/PSD95 (By similarity). Palmitoylates sex steroid hormone receptors, including ESR1, PGR and AR, thereby regulating their targeting to the plasma membrane and their function in rapid intracellular signaling upon binding of sex hormones (PubMed:22031296). May play a role in follicle stimulation hormone (FSH) activation of testicular Sertoli cells (By similarity).

Images



Western Blot analysis of various cells using DHHC-7 Polyclonal Antibody

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