

ZDHC7 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16172b**Specification**

ZDHC7 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9NXF8](#)**ZDHC7 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 55625

Other Names

Palmitoyltransferase ZDHHC7, Zinc finger DHHC domain-containing protein 7, DHHC-7, Zinc finger protein 370, ZDHHC7, ZNF370

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ZDHC7 Antibody (C-term) Blocking Peptide - Protein InformationName 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). Functions also 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).

Cellular Location

Golgi apparatus membrane; Multi-pass membrane protein

ZDHC7 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ZDHC7 Antibody (C-term) Blocking Peptide - Images**ZDHC7 Antibody (C-term) Blocking Peptide - Background**

Palmitoyltransferase with broad specificity. Palmitoylates SNAP25 and DLG4/PSD95. May palmitoylate GABA receptors on their gamma subunit (GABRG1, GABRG2 and GABRG3) and regulate their synaptic clustering and/or cell surface stability (By similarity).

ZDHC7 Antibody (C-term) Blocking Peptide - References

Gudbjartsson, D.F., et al. Nat. Genet. 40(5):609-615(2008)Lehner, B., et al. Genomics 83(1):153-167(2004)