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ZDHC7 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16172B

Specification

ZDHC7 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9NXF8
Other Accession	Q923G5, Q91WU6, NP_001139020.1, NP_060210.2
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**35140**
Antigen Region	**240-267**

ZDHC7 Antibody (C-term) - Additional Information

Gene ID 55625

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

Target/Specificity
This ZDHC7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 240-267 amino acids from the C-terminal region of human ZDHC7.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ZDHC7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ZDHC7 Antibody (C-term) - 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). 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) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ZDHC7 Antibody (C-term) - Images

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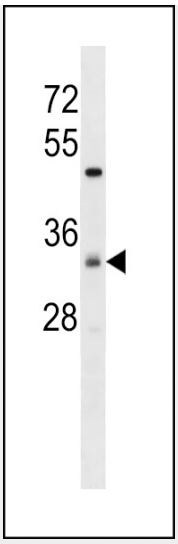

ZDHC7 Antibody (C-term) (Cat. #AP16172b) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the ZDHC7 antibody detected the ZDHC7 protein (arrow).

ZDHC7 Antibody (C-term) - 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) - References

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