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ZDHHC17 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21941a

Product Information

Application	WB, E
Primary Accession	Q8IUH5
Other Accession	Q80TN5
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54148
Calculated MW	72640

Additional Information

Gene ID	23390
Other Names	Palmitoyltransferase ZDHHC17, 2.3.1.225, Huntingtin yeast partner H, Huntingtin-interacting protein 14, HIP-14, Huntingtin-interacting protein 3, HIP-3, Huntingtin-interacting protein H, Putative MAPK-activating protein PM11, Putative NF-kappa-B-activating protein 205, Zinc finger DHHC domain-containing protein 17, DHHC-17, ZDHHC17, HIP14, HIP3, HYPH, KIAA0946
Target/Specificity	This ZDHHC17 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 3-37 amino acids from human ZDHHC17.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	ZDHHC17 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZDHHC17 (HGNC:18412)

Function	Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates and is involved in a variety of cellular processes (PubMed:15489887, PubMed:15603740, PubMed:24705354, PubMed:27911442, PubMed:28757145). 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). Palmitoyltransferase specific for a subset of neuronal proteins, including SNAP25, DLG4/PSD95, GAD2, SYT1 and HTT (PubMed:15489887, PubMed:15603740, PubMed:19139280, PubMed:28757145). Also palmitoylates neuronal protein GPM6A as well as SPRED1 and SPRED3 (PubMed:24705354). Could also play a role in axonogenesis through the regulation of NTRK1 and the downstream ERK1/ERK2 signaling cascade (By similarity). May be involved in the sorting or targeting of critical proteins involved in the initiating events of endocytosis at the plasma membrane (PubMed:12393793). May play a role in Mg(2+) transport (PubMed:18794299). Could also palmitoylate DNAJC5 and regulate its localization to the Golgi membrane (By similarity). Palmitoylates CASP6, thereby preventing its dimerization and subsequent activation (PubMed:27911442).
Cellular Location	Golgi apparatus membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Presynaptic cell membrane; Multi-pass membrane protein. Note=Low extracellular Mg(2+) induces increase in Golgi and in post-Golgi membrane vesicles
Tissue Location	Expressed in all brain regions. Expression is highest in the cortex, cerebellum, occipital lobe and caudate and lowest in the spinal cord. Expression is also seen in testis, pancreas, heart and kidney.

Background

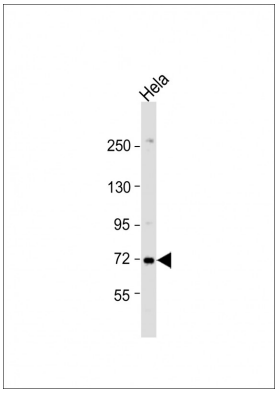
Palmitoyltransferase specific for a subset of neuronal proteins, including SNAP25, DLG4/PSD95, GAD2, SYT1 and HD. Palmitoylates MPP1 in erythrocytes. May be involved in the sorting or targeting of critical proteins involved in the initiating events of endocytosis at the plasma membrane. Has transforming activity. Mediates Mg(2+) transport.

References

Singaraja R.R.,et al.Hum. Mol. Genet. 11:2815-2828(2002).
Nagase T.,et al.DNA Res. 6:63-70(1999).
Matsuda A.,et al.Oncogene 22:3307-3318(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Faber P.W.,et al.Hum. Mol. Genet. 7:1463-1474(1998).

Images

Anti-ZDHHC17 Antibody (N-Term) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 73 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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