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Anti-ZDHHC15 Antibody

Catalog # AP60973

Product Information

Application	WB, IHC
Primary Accession	Q96MV8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39331

Additional Information

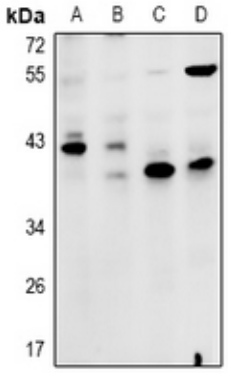
Gene ID	158866
Other Names	Palmitoyltransferase ZDHHC15; Zinc finger DHHC domain-containing protein 15; DHHC-15
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ZDHHC15. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

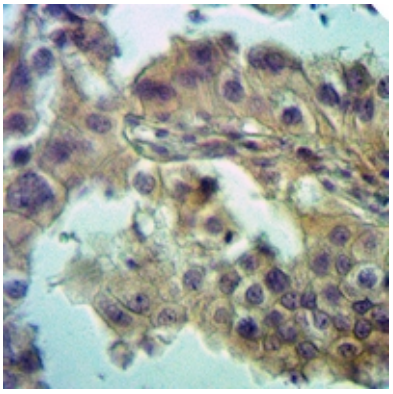
Name	ZDHHC15 (HGNC:20342)
Function	Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates (PubMed:18817523, PubMed:23034182). Has no stringent fatty acid selectivity and in addition to palmitate can also transfer onto target proteins myristate from tetradecanoyl-CoA and stearate from octadecanoyl-CoA (By similarity). Palmitoylates IGF2R and SORT1, promoting their partitioning to an endosomal membrane subdomain where they can interact with the retromer cargo-selective complex (PubMed:18817523). Thereby, regulates retrograde transport from endosomes to the Golgi apparatus of these lysosomal sorting receptors and plays a role in trafficking of lysosomal proteins (PubMed:18817523). In the nervous system, catalyzes the palmitoylation of DLG4/PSD95 and regulates its synaptic clustering and function in synaptogenesis (By similarity). Could be involved in the differentiation of dopaminergic neurons and the development of the diencephalon (By similarity). Could also catalyze the palmitoylation of GAP43 (By similarity). Could also palmitoylate DNAJC5 and regulate its localization to

	the Golgi membrane (By similarity). Could also palmitoylate FYN as shown in vitro (PubMed:19956733). May palmitoylate CALHM3 subunit of gustatory voltage-gated ion channels and modulate channel gating and kinetics.
Cellular Location	Golgi apparatus membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:F1QXD3}. Postsynaptic density {ECO:0000250|UniProtKB:Q2TGJ4}
Tissue Location	Expressed in placenta, liver, lung, kidney, heart and brain.

Images



Western blot analysis of ZDHHC15 expression in HEK293T (A), HepG2 (B), AML12 (C), C6 (D) whole cell lysates. (Predicted band size: 39 kD; Observed band size: 39 kD)



Immunohistochemical analysis of ZDHHC15 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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