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ZDHHC9 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9716b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9Y397
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24154
Calculated MW	40916
Antigen Region	335-364

Additional Information

Gene ID	51114
Other Names	Palmitoyltransferase ZDHHC9, Zinc finger DHHC domain-containing protein 9, DHHC-9, DHHC9, Zinc finger protein 379, Zinc finger protein 380, ZDHHC9, CXorf11, ZDHHC10, ZNF379, ZNF380
Target/Specificity	This ZDHHC9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 335-364 amino acids from the C-terminal region of human ZDHHC9.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	ZDHHC9 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZDHHC9 {ECO:0000303|PubMed:37802025, ECO:0000312|HGNC:HGNC:18475}
Function	Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates, such as ADRB2, GSDMD, HRAS, NRAS and CGAS

	(PubMed:16000296, PubMed:27481942, PubMed:37802025, PubMed:38530158, PubMed:38599239). The ZDHHC9-GOLGA7 complex is a palmitoyltransferase specific for HRAS and NRAS (PubMed:16000296). May have a palmitoyltransferase activity toward the beta-2 adrenergic receptor/ADRB2 and therefore regulate G protein-coupled receptor signaling (PubMed:27481942). Acts as a regulator of innate immunity by catalyzing palmitoylation of CGAS, thereby promoting CGAS homodimerization and cyclic GMP-AMP synthase activity (PubMed:37802025). Activates pyroptosis by catalyzing palmitoylation of gasdermin-D (GSDMD), thereby promoting membrane translocation and pore formation of GSDMD (PubMed:38530158, PubMed:38599239).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein
Tissue Location	Highly expressed in kidney, skeletal muscle, brain, lung and liver. Absent in thymus, spleen and leukocytes

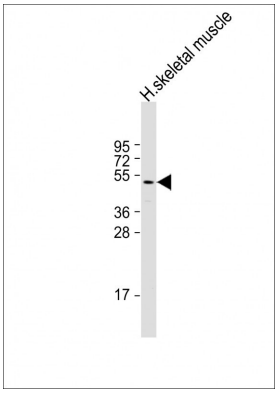
Background

The ZDHHC9-GOLGA7 complex is a palmitoyltransferase specific for HRAS and NRAS.

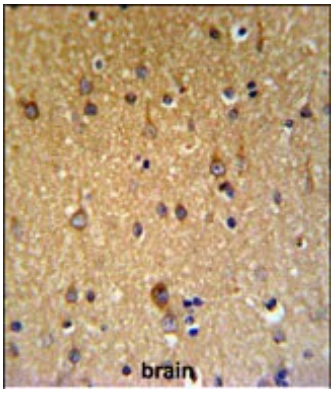
References

Mansilla, F., et al. Br. J. Cancer 96(12):1896-1903(2007)
Raymond, F.L., et al. Am. J. Hum. Genet. 80(5):982-987(2007)
Zhou, F.L., et al. Cancer Immunol. Immunother. 55(8):910-917(2006)

Images



Anti-ZDHHC9 Antibody (C-term) at 1:2000 dilution + human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ZDHHC9 Antibody (C-term) (Cat. #AP9716b) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ZDHHC9 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.