

ZDHHC9 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51621

Product Information

Application	WB, IHC-P
Primary Accession	Q9Y397
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40916

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	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ZDHHC9. The exact sequence is proprietary.
Dilution	WB~~1:1000 IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

Zhou F.L.,et al.Cancer Immunol. Immunother. 55:910-917(2006).
Lai C.-H.,et al.Genome Res. 10:703-713(2000).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.

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