

ZDHHC-12 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58561

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q96GR4
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30813
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZDHHC-12
Epitope Specificity	165-267/267
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein
SIMILARITY	Belongs to the DHHC palmitoyltransferase family. Contains 1 DHHC-type zinc finger.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZDHHC12 (zinc finger, DHHC domain containing 12), also known as ZNF400, is a 267 amino acid multi-pass membrane protein that contains one DHHC-type zinc finger and is thought to function as a palmitoyltransferase, catalyzing the transformation of palmitoyl-CoA and a cysteine-conjugated protein to a S-palmitoyl protein and free CoA. Three isoforms exist due to alternative splicing events. The gene encoding ZDHHC12 maps to human chromosome 9, which consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes. Chromosome 9 is considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype.

Additional Information

Gene ID	84885
Other Names	Palmitoyltransferase ZDHHC12, 2.3.1.225, Zinc finger protein 400, ZDHHC12 (HGNC:19159), ZNF400
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	ZDHHC12 {ECO:0000303 PubMed:36586411, ECO:0000312 HGNC:HGNC:19159}
Function	Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates (PubMed: 36586411). Has a palmitoyltransferase activity toward gephyrin/GPHN, regulating its clustering at synapses and its function in gamma-aminobutyric acid receptor clustering (By similarity). Thereby, indirectly regulates GABAergic synaptic transmission (By similarity). Negatively regulates NLRP3-driven inflammation. Catalyzes NLRP3 palmitoylation, leading to its degradation via the chaperone-mediated autophagy (CMA) process (PubMed: 36586411 , PubMed: 39225180).
Cellular Location	Golgi apparatus membrane {ECO:0000250 UniProtKB:Q8VC90}; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Widely expressed..

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.