

ZDHHC5/ZNF375 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57108**Specification**

ZDHHC5/ZNF375 Polyclonal Antibody - Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	O9C0B5
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77545

ZDHHC5/ZNF375 Polyclonal Antibody - Additional Information**Gene ID** 25921**Other Names**

Palmitoyltransferase ZDHHC5, 2.3.1.225, Zinc finger DHHC domain-containing protein 5, DHHC-5, Zinc finger protein 375, ZDHHC5, KIAA1748, ZNF375

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

ZDHHC5/ZNF375 Polyclonal Antibody - Protein Information**Name** ZDHHC5**Synonyms** KIAA1748, ZNF375**Function**

Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates such as CTNND2, CD36, NOD1, NOD2, STAT3 and S1PR1 thus plays a role in various biological processes including cell adhesion, fatty acid uptake, bacterial sensing or cardiac functions (PubMed:21820437, PubMed:29185452, PubMed:31402609, PubMed:31649195, PubMed:34293401). Plays an important role in the regulation of synapse efficacy by mediating palmitoylation of delta-catenin/CTNND2, thereby increasing synaptic delivery and surface stabilization of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionic acid receptors (AMPA receptors). Under basal conditions, remains at the synaptic membrane through FYN-mediated phosphorylation that prevents association with endocytic proteins (PubMed:31402609).

href="http://www.uniprot.org/citations/26334723" target="_blank">26334723). Neuronal activity enhances the internalization and trafficking of DHHC5 from spines to dendritic shafts where it palmitoylates delta-catenin/CTNND2 (PubMed:26334723). Regulates cell adhesion at the plasma membrane by palmitoylating GOLGA7B and DSG2 (PubMed:31402609). Plays a role in innate immune response by mediating the palmitoylation of NOD1 and NOD2 and their proper recruitment to the bacterial entry site and phagosomes (PubMed:31649195, PubMed:34293401). Participates also in fatty acid uptake by palmitoylating CD36 and thereby targeting it to the plasma membrane. Upon binding of fatty acids to CD36, gets phosphorylated by LYN leading to inactivation and subsequent CD36 caveolar endocytosis (PubMed:32958780). Controls oligodendrocyte development by catalyzing STAT3 palmitoylation (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Synapse

ZDHHC5/ZNF375 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ZDHHC5/ZNF375 Polyclonal Antibody - Images