



ZDHHC5 Rabbit pAb

Catalog No	YP-Ab-18616
Isotype	IgG
Reactivity	Human, Mouse, Rat
Applications	WB
Gene Name	ZDHHC5 KIAA1748 ZNF375
Immunogen	Synthesized peptide derived from human ZDHHC5
Specificity	This antibody detects endogenous levels of ZDHHC5 at Human, Mouse, Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DHHC5; ZNF375; ZDHHC5; ZDHHC5 KIAA1748 ZNF375; Palmitoyltransferase ZDHHC5 (Zinc finger DHHC domain-containing protein 5) (DHHC-5) (Zinc finger protein 375)
Observed Band	78kDa
Calculated Molecular Weight	78kDa
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Cell junction, synapse .
Tissue Specificity	
Function	Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates such as CTNND2, CD36, STAT3 and S1PR1 thus plays a role in various biological processes including cell adhesion, fatty acid uptake, bacterial sensing or cardiac functions . 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 . Neuronal activity enhances the internalization and trafficking of DHHC5 from spines to dendritic shafts where it palmitoylates delta-catenin/CTNND2 . Regulates cell



adhesion at the plasma membrane by palmitoylating GOLGA7B and DSG2 . 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 . 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 . Controls oligodendrocyte development by catalyzing STAT3 palmitoylation (By similarity).

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images