

## ZDHC5 Rabbit pAb

CatalogNo: YN6038

### | Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 79kD (Calculated)

#### Isotype

- IgG

### | Recommended Dilution Ratios

WB 1:500-2000

### | Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### | Basic Information

**Clonality** Polyclonal

### | Immunogen Information

**Immunogen** Synthesized peptide derived from human ZDHC5

**Specificity** This antibody detects endogenous levels of ZDHC5 at Human, Mouse, Rat

### | Target Information

**Gene name** ZDHC5 KIAA1748 ZNF375

**Protein Name** Palmitoyltransferase ZDHHC5 (Zinc finger DHHC domain-containing protein 5) (DHHC-5) (Zinc finger protein 375)

Organism	Gene ID	UniProt ID
Human	<a href="#">25921</a> ;	<a href="#">Q9C0B5</a> ;
Mouse	<a href="#">228136</a> ;	<a href="#">Q8VDZ4</a> ;
Rat	<a href="#">362156</a> ;	<a href="#">Q2THW7</a> ;

**Cellular Localization** Cell membrane ; Multi-pass membrane protein . Cell junction, synapse .

**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).

## Validation Data

## Contact information

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