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# ZDHHC1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10315a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q8WTX9 |
| **Other Accession** | Q8R0N9, NP_037436.1 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Bovine, Canine, Rabbit |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB27847 |
| **Calculated MW** | 54818 |
| **Antigen Region** | 14-43 |

## Additional Information

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| **Gene ID** | 29800 |
| **Other Names** | Probable palmitoyltransferase ZDHHC1, DHHC domain-containing cysteine-rich protein 1, Zinc finger DHHC domain-containing protein 1, DHHC-1, Zinc finger protein 377, ZDHHC1, C16orf1, ZNF377 |
| **Target/Specificity** | This ZDHHC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-43 amino acids from the N-terminal region of human ZDHHC1. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | ZDHHC1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | ZDHHC1 {ECO:0000303\|PubMed:39173637, ECO:0000312\|HGNC:HGNC:17916} |

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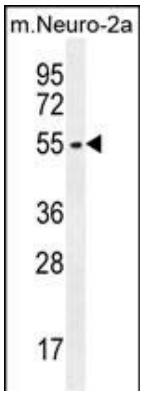
| **Function** | Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates, such as NCDN and NLRP3 (PubMed:39173637). Has a palmitoyltransferase activity toward NCDN and regulates NCDN association with endosome membranes through this palmitoylation (By similarity). Acts as an activator of the NLRP3 inflammasome by mediating palmitoylation of 'Cys-130' and 'Cys-958' of NLRP3, thereby promoting NLRP3 phosphorylation and activation by NEK7 (PubMed:39173637). |
| **Cellular Location** | Endosome membrane {ECO:0000250\|UniProtKB:Q8R0N9}; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus |
| **Tissue Location** | Widely expressed with significant expression in heart, brain, placenta, lung, liver, kidney, testis, thymus and small intestine (PubMed:16647879). Expressed at lower levels in adult pancreas and lung (PubMed:10395086). |

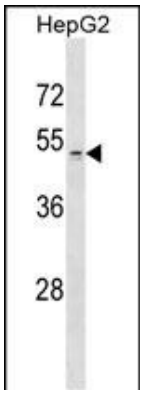
## References


Feng, T., et al. Hum. Genet. 128(3):269-280(2010)
Putilina, T., et al. Mol. Cell. Biochem. 195 (1-2), 219-226 (1999) :


## Images




ZDHHC1 Antibody (N-term) (Cat. #AP10315a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the ZDHHC1 antibody detected the ZDHHC1 protein (arrow).




ZDHHC1 Antibody (N-term) (Cat. #AP10315a) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the ZDHHC1 antibody detected the ZDHHC1 protein (arrow).

## Citations

- DNA methylation downregulated ZDHHC1 suppresses tumor growth by altering cellular metabolism and inducing oxidative/ER stress-mediated apoptosis and pyroptosis

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