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# PTCHD1 Rabbit pAb

PTCHD1 Rabbit pAb
Catalog # AP57586

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q96NR3 |
| **Predicted** | Rat, Pig, Dog, Human, Mouse, Rabbit, Chicken, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 101341 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human PTCHD1 |
| **Epitope Specificity** | 801-888/888 |
| **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** | Cell membrane. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | This gene encodes a membrane protein with a patched domain. The encoded protein is similar to Drosophila proteins which act as receptors for the morphogen sonic hedgehog. Deletions in this gene, which is located on the X chromosome, are associated with intellectual disability and autism (PMID: 21091464, PMID: 20844286). [provided by RefSeq, Aug 2011] |

## Additional Information

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| **Gene ID** | 139411 |
| **Other Names** | Patched domain-containing protein 1, PTCHD1 (HGNC:26392) |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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. |

## Protein Information

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| **Name** | PTCHD1 ( HGNC:26392) |
| **Function** | Required for the development and function of the thalamic reticular nucleus |

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| | (TRN), a part of the thalamus that is critical for thalamocortical transmission, generation of sleep rhythms, sensorimotor processing and attention. Can bind cholesterol in vitro (PubMed:36769003). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein. Cell projection, dendritic spine |
| **Tissue Location** | Widely expressed, including in various regions of the brain with highest expression in the gray and white cerebellum, followed by the cerebellar vermis and the pituitary gland |

## Background

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