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PTCHD1 Rabbit pAb

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Catalog # AP57586

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96NR3
Predicted	Human, Mouse, Rat, Chicken, Dog, Pig, Horse, Rabbit
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.
SIMILARITY	Belongs to the patched family. Contains 1 SSD (sterol-sensing) domain.
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

Gene ID	139411
Other Names	Patched domain-containing protein 1, PTCHD1 (HGNC:26392)
Target/Specificity	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.
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

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

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]