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Prickle 2 Rabbit pAb

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Catalog # AP57733

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q7Z3G6
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95615
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Prickle 2
Epitope Specificity	401-500/844
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	Nucleus membrane.
DISEASE	Epilepsy, progressive myoclonic 5.
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 homolog of Drosophila prickle. The exact function of this gene is not known, however, studies in mice suggest that it may be involved in seizure prevention. Mutations in this gene are associated with progressive myoclonic epilepsy type 5. [provided by RefSeq, Dec 2011]

Additional Information

Gene ID	166336
Other Names	Prickle-like protein 2, PRICKLE2 {ECO:0000303|PubMed:26942291, ECO:0000312|HGNC:HGNC:20340}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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

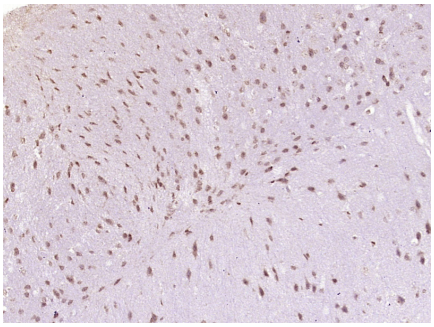
Name	PRICKLE2 {ECO:0000303|PubMed:26942291, ECO:0000312|HGNC:HGNC:20340}

Function	Is involved in the organization and maintenance of axon initial segment (AIS) architecture, likely cooperating with IGSF9B to regulate ANK3/ANKG localization to AIS (By similarity). By binding to and regulating ANK3/ANKG, it modulates its ability to bundle microtubules, a crucial mechanism for establishing neuronal polarity and AIS formation (By similarity). During early embryonic development, has a role in blastocyst formation, likely controlling the redistribution of the microtubule network during embryo compaction and the establishment of apical/basal cell polarity (By similarity).
Cellular Location	Postsynaptic density {ECO:0000250|UniProtKB:A6IBC5}. Cell projection, axon {ECO:0000250|UniProtKB:Q80Y24}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q80Y24}. Nucleus {ECO:0000250|UniProtKB:Q80Y24} Note=In the axon, strongly expressed in the axon initial segment (AIS) (By similarity). Detected in the nucleus of 2-cell-stage till 16-cell- stage embryos; nuclear expression decreases from the 16-cell stage onwards (By similarity). {ECO:0000250|UniProtKB:A6IBC5, ECO:0000250|UniProtKB:Q80Y24}
Tissue Location	Expressed in brain, eye and testis. Additionally in fetal brain, adult cartilage, pancreatic islet, gastric cancer and uterus tumors.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Prickle 2) Polyclonal Antibody, Unconjugated (AP57733) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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