

TPGS1 Rabbit pAb

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Catalog # AP56587

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6ZTW0
Predicted	Rat, Dog, Human, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31275
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TPGS1
Epitope Specificity	21-120/290
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	Microtubule.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TPCN1 is a widely expressed, 816 amino acid voltage-gated cation channel protein with predominant expression in lung, liver, heart and kidney. In the kidney, TPCN1 localizes to the inner medullary collecting ducts. In contrast with the distantly related four-domain voltage-gated calcium and sodium channels and the more closely related four-domain ion transport protein located on the surface of sperm cells (CatSper), TPCN1 is a two-domain channel. Similar to the four-domain channel structure, each of the two homologous domains that comprise TPCN1 contains six transmembrane segments (S1-S6) with a pore loop between S5 and S6 and a voltage sensor segment that is positively charged. TPCN1 has hydrophilic N- and C-termini that localize to the cytoplasm.

Additional Information

Gene ID	91978
Other Names	Tubulin polyglutamylase complex subunit 1, PGs1, TPGS1 (HGNC:25058), C19orf20
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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	TPGS1 (HGNC:25058)
Synonyms	C19orf20
Function	Subunit of the tubulin polyglutamylase complex (TPGC). The complex mediates cilia and flagella polyglutamylation which is essential for their biogenesis and motility (Probable). May act in the targeting of the tubulin polyglutamylase complex. Required for the development of the spermatid flagellum (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme {ECO:0000250 UniProtKB:Q99MS8}. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250 UniProtKB:Q99MS8}. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250 UniProtKB:Q99MS8}. Cytoplasm, cytoskeleton, flagellum basal body {ECO:0000250 UniProtKB:Q99MS8}. Cell projection, axon {ECO:0000250 UniProtKB:Q99MS8}. Cell projection, dendrite {ECO:0000250 UniProtKB:Q99MS8}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250 UniProtKB:Q99MS8} Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Note=Associated with microtubules from neurites, centrosomes, basal bodies and axonemes. {ECO:0000250 UniProtKB:Q99MS8}

Background

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