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OTOP3 Rabbit pAb

Catalog # AP98118

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q7RTS5
Other Accession	Q7RTS5
Predicted	Rat, Pig, Human, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66296
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human OTOP3
Epitope Specificity	21-120/596
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the otopetrin family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Otopetrins are multi-transmembrane domain proteins that share conserved gene and protein structure and are possibly involved in the formation of otoconia and otoliths. Located in the utricle and saccule of the inner ear, otoconia are complex calcium carbonate biominerals that are required for the normal sensation of gravity and linear acceleration. Vertigo and loss of balance may be attributed to degeneration of displacement of otoconia. The otopetrin family consists of three proteins, OTOP1, OTOP2 and OTOP3. These proteins have 12 putative transmembrane domains that are clustered into three otopetrin domains (OD-I, II and III). OTOP1 was the first described member of the Otopetrin family. Mutations of OTOP1 leads to absence of otoconia or otoliths, though inner ear development is normal. OTOP2 and OTOP3 share significant structural similarity with OTOP1 and may also play a role in the formation of mineralized structures.

Additional Information

Gene ID	347741
Other Names	OTOP3_HUMAN; OTOP3; Otopetrin-3; otopetrin 3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	OTOP3 {ECO:0000303|PubMed:12651873, ECO:0000312|HGNC:HGNC:19658}
Function	Proton-selective channel gated by extracellular protons.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q80UF9}; Multi-pass membrane protein {ECO:0000250|UniProtKB:A9JTM7}

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