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OTOP2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17704C

Specification

OTOP2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q7RTS6
Other Accession	Q80SX5, NP_835454.1
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**62236**
Antigen Region	**336-363**

OTOP2 Antibody (Center) - Additional Information

Gene ID 92736

Other Names
Otopetrin-2, OTOP2

Target/Specificity
This OTOP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 336-363 amino acids from the Central region of human OTOP2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
OTOP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

OTOP2 Antibody (Center) - Protein Information

Name OTOP2 {ECO:0000303|PubMed:12651873, ECO:0000312|HGNC:HGNC:19657}

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Function Proton-selective ion channel open at neutral pH. Actives at neutral and alkaline extracellular pH, likely participates in some alkali-related physiological activities.

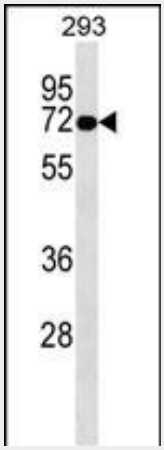
Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q80VM9}; Multi-pass membrane protein

OTOP2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OTOP2 Antibody (Center) - Images



OTOP2 Antibody (Center) (Cat. #AP17704c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the OTOP2 antibody detected the OTOP2 protein (arrow).

OTOP2 Antibody (Center) - Background

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.

OTOP2 Antibody (Center) - References

Hurle, B., et al. Hum. Mol. Genet. 12(7):777-789(2003)