

**OTOP2 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17704C****Specification**

---

**OTOP2 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q7RTS6</a>
Other Accession	<a href="#">Q80SX5</a> , <a href="#">NP_835454.1</a>
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

**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}**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

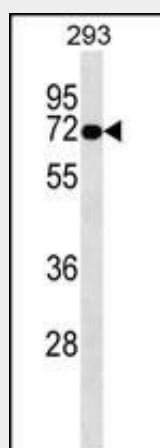
Cell membrane {ECO:0000250|UniProtKB:Q80VM9}; Multi-pass membrane protein

### 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 Cytometry](#)
- [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 or 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)