

TMC2 Rabbit Polyclonal Antibody

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Catalog # AP93306

Product Information

Application	WB
Primary Accession	Q8TDI7
Reactivity	Human, Mouse
Host	Polyclonal, Rabbit,IgG
Clonality	Polyclonal
Calculated MW	102610

Additional Information

Gene ID	117532
Other Names	Transmembrane channel-like protein 2, Transmembrane cochlear-expressed protein 2, TMC2 (HGNC:16527), C20orf145
Dilution	WB~~1:1000
Storage Conditions	-20°C

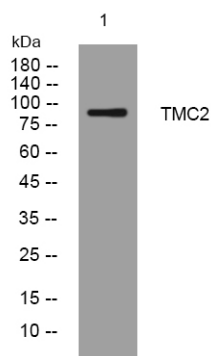
Protein Information

Name	TMC2 (HGNC:16527)
Synonyms	C20orf145
Function	Pore-forming subunit of the mechanotransducer (MET) non- selective cation channel complex located at the tips of stereocilia of cochlear hair cells and that mediates sensory transduction in the auditory system (PubMed:11850618). The MET complex is composed of two dimeric pore-forming ion-conducting transmembrane TMC (TMC1 or TMC2) subunits, and aided by several auxiliary proteins including LHFPL5, TMIE, CIB2/3 and TOMT, and the tip-link PCDH15. MET channel is activated by tension in the tip-link extending from the side wall of one stereocilium to the tip of the adjacent shorter stereocilium, where the channel is located (By similarity). TMC2 MET channel is highly permeable to calcium and likely transports monovalent cations. Also involved in vestibular hair cell transduction current of the mammalian inner ear (By similarity).
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:E7FFT2}; Multi-pass membrane protein. Note=Localized to the stereocilia tips of the cochlear hair cells and plasma membranes of cuticular plates. {ECO:0000250 UniProtKB:Q8R4P4}
Tissue Location	Detected in fetal cochlea.

Background

This gene encodes a transmembrane protein that is necessary for mechanotransduction in cochlear hair cells of the inner ear. Mutations in this gene may underlie hereditary disorders of balance and hearing. [provided by RefSeq, Aug 2015],

Images



Western blot analysis of lysates from A431 cells, primary antibody was diluted at 1:1000, 4°over night

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