

TMIE Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9761c**Specification**

TMIE Antibody (Center) - Product Information

| | |
|-------------------|------------------------|
| Application | WB,E |
| Primary Accession | Q8NEW7 |
| Other Accession | Q8K467 |
| Reactivity | Human, Mouse |
| Predicted | Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 17241 |
| Antigen Region | 71-100 |

TMIE Antibody (Center) - Additional Information**Gene ID** 259236**Other Names**

Transmembrane inner ear expressed protein, TMIE

Target/Specificity

This TMIE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-100 amino acids from the Central region of human TMIE.

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

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

TMIE Antibody (Center) - Protein Information**Name** TMIE

Function Auxiliary subunit of the mechanotransducer (MET) non-specific cation channel complex located at the tips of stereocilia of cochlear hair cells and that mediates sensory transduction in the auditory system. 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. May contribute to the formation of the pore.

Cellular Location

Membrane; Single-pass type I membrane protein

Tissue Location

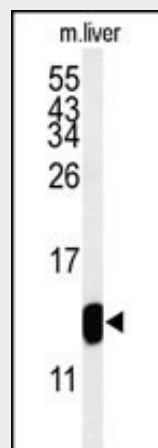
Expressed in many tissues.

TMIE Antibody (Center) - Protocols

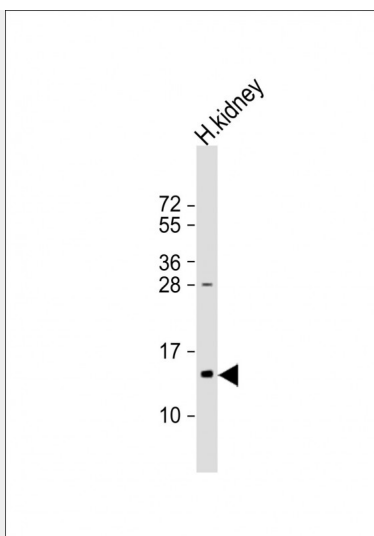
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TMIE Antibody (Center) - Images



Western blot analysis of TMIE Antibody (Center) (Cat. #AP9761c) in mouse liver tissue lysates (35ug/lane). TMIE (arrow) was detected using the purified Pab.



Anti-TMIE Antibody (Center) at 1:1000 dilution + human kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

TMIE Antibody (Center) - Background

This gene encodes a transmembrane inner ear protein. Studies in mouse suggest that this gene is required for normal postnatal maturation of sensory hair cells in the cochlea, including correct development of stereocilia bundles. This gene is one of multiple genes responsible for recessive non-syndromic deafness (DFNB), also known as autosomal recessive nonsyndromic hearing loss (ARNSHL), the most common form of congenitally acquired inherited hearing impairment.

TMIE Antibody (Center) - References

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Sirmaci, A., et al. Clin. Genet. 75(6):562-567(2009)
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Cho, K.I., et al. Comp. Med. 53(6):642-648(2003)
Naz, S., et al. Am. J. Hum. Genet. 71(3):632-636(2002)
Mitchem, K.L., et al. Hum. Mol. Genet. 11(16):1887-1898(2002)