

TMC1 Polyclonal antibody

Catalog Number: 20718-1-AP

Basic Information

Catalog Number: 20718-1-AP	GenBank Accession Number: NM_138691	Purification Method: Antigen affinity purification
Size: 600 µg/ml	GeneID (NCBI): 117531	Recommended Dilutions: WB 1:300-1:1000 IHC 1:20-1:200 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8TDI8	
Isotype: IgG	Full Name: transmembrane channel-like 1	
	Calculated MW: 88 kDa	
	Observed MW: 88 kDa	

Applications

Tested Applications:

IF-P, IHC, WB, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue,

IHC : human placenta tissue,

IF : mouse brain tissue,

Background Information

Transmembrane channel-like protein 1 (TMC1), is an integral membrane protein with six transmembrane domains and cytoplasmically oriented N- and C- termini (PMID: 20672865). Human TMC1 and mouse Tmc1 mRNA expression were detected in human fetal cochlea and inner-ear tissue of postnatal mouse, respectively. TMC1 is required for cochlear hair-cell function (PMID: 11850618). It is a component of hair cell transduction channels and contributes to permeation properties (PMID: 23871232). Mutations in TMC1 gene can cause progressive postlingual hearing loss and profound prelingual deafness (PMID: 11850618). The antibody is specific to TMC1.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

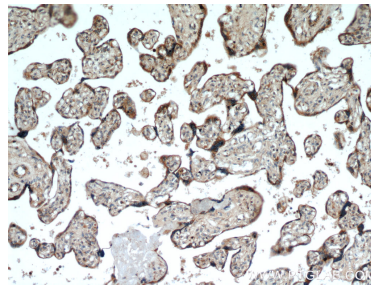
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

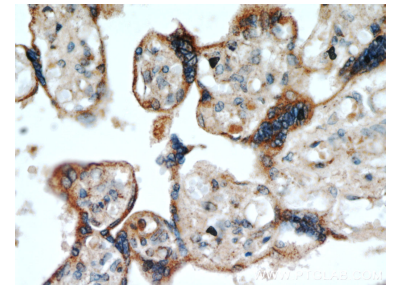
Selected Validation Data



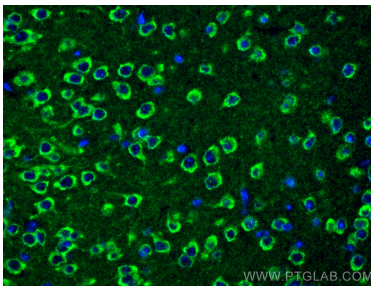
mouse brain tissue were subjected to SDS PAGE followed by western blot with 20718-1-AP (TMC1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta using 20718-1-AP (TMC1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta using 20718-1-AP (TMC1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using TMC1 antibody (20718-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).