

Product datasheet for **TA306889**

TMEM38B Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	TMEM38B antibody was raised against a 17 amino acid peptide from near the carboxy terminus of human TMEM38B.
Formulation:	PBS containing 0.02% sodium azide.
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	transmembrane protein 38B
Database Link:	NP_060582 Entrez Gene 52076 MouseEntrez Gene 362521 RatEntrez Gene 55151 Human Q9NVV0



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Background:

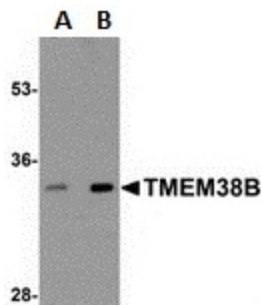
TMEM38A and TMEM38B are two recently identified trimeric intracellular cation (TRIC) channel subtypes. TMEM38B is expressed in most mammalian tissues, while TMEM38A is preferentially expressed in excitable tissues such as striated muscle and brain. Mice deficient in both TMEM38A and TMEM38B suffer embryonic cardiac failure; the cardiac myocytes display severe dysfunction in SR Ca²⁺ handling, weakened Ca²⁺ release, and reduced K⁺ permeability indicating that the TRIC cation channels are likely to act as counter-ion channels that function in synchronization with Ca²⁺ release from intracellular stores. Mice that were lacking only TMEM38B however, die shortly after birth due to respiratory failure and have lungs exhibiting severe histological defect and ultrastructural abnormalities in their alveolar type II epithelial cells, indicating that TMEM38B are essential for perinatal lung maturation. Other experiments have shown that TMEM38A and TMEM38B can act with junctophilin proteins to support efficient ryanodine receptor-mediated Ca²⁺ release in muscle cells.

Synonyms:

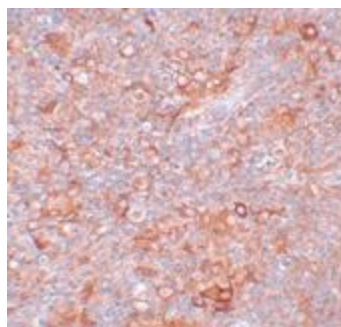
bA219P18.1; C9orf87; D4Ert89e; OI14; TRIC-B; TRICB

Protein Families:

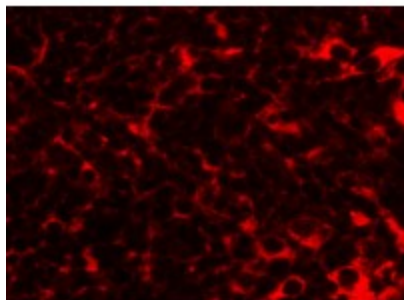
Transmembrane

Product images:

Western blot analysis of TMEM38B in rat thymus tissue lysate with TMEM38B antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of TMEM38B in mouse thymus tissue with TMEM38B antibody at 5 ug/mL.



Immunofluorescence of TMEM38B in mouse thymus tissue with TMEM38B antibody at 20 ug/mL.