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Datasheet for ABIN6991240  
**anti-TMEM38B antibody (C-Term)**

### Overview

Quantity:	0.1 mg
Target:	TMEM38B
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TMEM38B antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	TMEM38B antibody was raised against a 17 amino acid synthetic peptide from near the carboxy terminus of human TMEM38B. The immunogen is located within the last 50 amino acids of TMEM38B.
Isotype:	IgG
Purification:	TMEM38B Antibody is affinity chromatography purified via peptide column.

### Target Details

Target:	TMEM38B
Alternative Name:	TMEM38B ( <a href="#">TMEM38B Products</a> )
Background:	TMEM38B Antibody: TMEM38A and TMEM38B are two recently identified trimeric intracellular

## Target Details

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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 Ca<sup>2+</sup> handling, weakened Ca<sup>2+</sup> release, and reduced K<sup>+</sup> permeability indicating that the TRIC cation channels are likely to act as counter-ion channels that function in synchronization with Ca<sup>2+</sup> 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 Ca<sup>2+</sup> release in muscle cells.

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Gene ID: 55151

NCBI Accession: [NP\\_060582](#)

UniProt: [Q9NVV0](#)

## Application Details

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Application Notes: TMEM38B antibody can be used for detection of TMEM38B by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

Antibody validated: Western Blot in rat samples, Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 mg/mL

Buffer: TMEM38B Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C, 4 °C

## Handling

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Storage Comment: TMEM38B antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.