Datasheet for ABIN500986

# anti-TMEM38B antibody (C-Term)

1 Image

Go to Product page

## 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: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA) |

## Product Details

| | |
|---|---|
| Immunogen: | TMEM38B antibody was raised against a 17 amino acid peptide from near the carboxy terminus of human TMEM38B. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | Species reactivity (tested):Human, mouse, rat |
| Purification: | Peptide affinity chromatography |

## Target Details

| | |
|---|---|
| Target: | TMEM38B |
| Alternative Name: | TMEM38B (TMEM38B Products) |

## Target Details

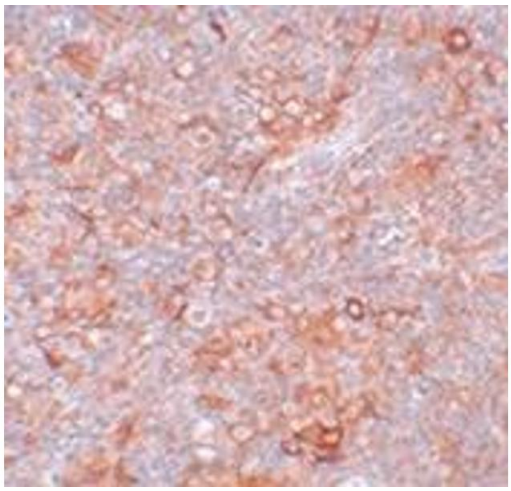
| | |
|---|---|
| Background: | TMEM38A and TMEM38B are two recently identified trimeric intracellular cation (TRIC) channel subtypes. TMEM38B is expressed in most mammalian tissues, while TMEM38A is preferentially expressed in excitable tissues such as striated muscle and brain. Mice deficient in both 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: C9orf87, TRIC-B, TRICB, Transmembrane protein 38B, Trimeric intracellular cation channel type B |
| Gene ID: | 55151 |
| NCBI Accession: | NP_060582 |

## Application Details

| | |
|---|---|
| Application Notes: | ELISA. Western blot: 1 - 2 µg/mL. Immunohistochemistry on paraffin sections.<br>Other applications not tested.<br>Optimal dilutions are dependent on conditions and should be determined by the user. |
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Concentration: | 1.0 mg/mL |
| Buffer: | 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. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | -20 °C |
| Storage Comment: | Store the antibody (in aliquots) at -20 °C. |



**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Immunohistochemistry of TMEM38B in mouse thymus tissue with this product at 5 µg/ml.