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TMEM43 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP12618c

Specification

TMEM43 Antibody (Center) Blocking peptide - Product Information

Primary Accession Q9BTV4

TMEM43 Antibody (Center) Blocking peptide - Additional Information

Gene ID 79188

Other Names
Transmembrane protein 43, Protein LUMA, TMEM43

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TMEM43 Antibody (Center) Blocking peptide - Protein Information

Name TMEM43

Function
May have an important role in maintaining nuclear envelope structure by organizing protein complexes at the inner nuclear membrane. Required for retaining emerin at the inner nuclear membrane (By similarity). Plays a role in the modulation of innate immune signaling through the cGAS-STING pathway by interacting with RNF26 (PubMed:32614325). In addition, functions as a critical signaling component in mediating NF-kappa-B activation by acting downstream of EGFR and upstream of CARD10 (PubMed:27991920). Contributes to passive conductance current in cochlear glia-like supporting cells, mediated by gap junctions and necessary for hearing and speech discrimination (PubMed:34050020).

Cellular Location
Endoplasmic reticulum membrane. Nucleus inner membrane; Multi-pass membrane protein. Cell membrane Note=Retained in the inner nuclear membrane through interaction with EMD and A- and B-lamins. The N- and C-termini are oriented towards the nucleoplasm. The majority of the hydrophilic domain resides in the endoplasmic reticulum lumen (By similarity).

Tissue Location
Highest expression in placenta. Also found at lower levels in heart, ovary, spleen, small intestine, thymus, prostate and testis.

TMEM43 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

TMEM43 Antibody (Center) Blocking peptide - Images

TMEM43 Antibody (Center) Blocking peptide - Background

This gene belongs to the TMEM43 family. Defects in thisgene are the cause of familial arrhythmogenic right ventriculardysplasia type 5 (ARVD5), also known as arrhythmogenic rightventricular cardiomyopathy type 5 (ARVC5). Arrhythmogenic rightventricular dysplasia is an inherited disorder, often involvingboth ventricles, and is characterized by ventricular tachycardia,heart failure, sudden cardiac death, and fibrofatty replacement ofcardiomyocytes. This gene contains a response element for PPARgamma (an adipogenic transcription factor), which may explain thefibrofatty replacement of the myocardium, a characteristicpathological finding in ARVC.

TMEM43 Antibody (Center) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Barahona-Dussault, C., et al. Clin. Genet. 77(1):37-48(2010)Hodgkinson, K., et al. Genet. Med. 11(12):859-865(2009)Merner, N.D., et al. Am. J. Hum. Genet. 82(4):809-821(2008)Bengtsson, L., et al. J. Cell. Sci. 121 (PT 4), 536-548 (2008) :