TMEM18 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TMEM18, Polyclonal Antibody
Full Product Name	TMEM18 Antibody
Product Gene Name	anti-TMEM18 antibody
Product Synonym Names	DKFZp434C1714; TMEM18; TMM18_HUMAN; Transmembrane protein 18
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	TMEM18 Antibody detects endogenous levels of TMEM18.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	TMEM18 peptide (MBS9632656) is used for blocking the activity of TMEM18 antibody (MBS9630273)
Molecular Weight	15,011 Da
OMIM	613220
3D Structure	ModBase 3D Structure for Q96B42
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human TMEM18.
Conjugation	Unconjugated
Similarity	Belongs to the TMEM18 family.
Subunit Structure	Forms homooligomers, independently of the DNA-binding domain.
Function	Transcription repressor. Sequence-specific ssDNA and dsDNA binding protein, with preference for GCT end CTG repeats. Cell migration modulator which enhances the glioma-specific migration ability of neural stem cells (NSC) and neural precursor cells (NPC).
Product Categories/Family for anti-TMEM18 antibody	Cytoplasm; Nucleus membrane; Multi-pass membrane protein; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TMEM18 antibody	ELISA (EIA)(peptide)
Application Notes for anti-TMEM18 antibody	ELISA(peptide): 1:20000-1:40000

Related Product Information for anti-TMEM18 antibody	MBS9630273 is an antibody targeting TMEM18. Also known as TMEM18 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-TMEM18 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TMEM18. It may not necessarily be applicable to this product.

NCBI GI #	119621502
NCBI GeneID	129787
NCBI Accession #	EAX01097
UniProt Primary Accession #	Q96B42
UniProt Secondary Accession #	Q8N5H2; Q9NTH3; D6W4X9
UniProt Related Accession #	Q96B42
NCBI Official Full Name	transmembrane protein 18, isoform CRA_a, partial
NCBI Official Synonym Full Names	transmembrane protein 18
NCBI Official Symbol	TMEM18
UniProt Protein Name	Transmembrane protein 18
Protein Family	Transmembrane protein
UniProt Gene Name	TMEM18
UniProt Entry Name	TMM18_HUMAN
NCBI Protein Information	transmembrane protein 18
UniProt Comments for TMEM18	TMEM18: Transcription repressor. Sequence-specific ssDNA and dsDNA binding protein, with preference for GCT end CTG repeats. Cell migration modulator which enhances the glioma-specific migration ability of neural stem cells (NSC) and neural precursor cells (NPC). Belongs to the TMEM18 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 2p25.3 Cellular Component: nuclear membrane; cytoplasm; integral to membrane Molecular Function: DNA binding Biological Process: cell migration; transcription, DNA-dependent
Research Articles on TMEM18	**1.** results add to the evidence that BMI related variants in and near FTO and TMEM18 may increase the risk for T2D not only through secondary effects of obesity
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