Rabbit TMEM100 Polyclonal Antibody | anti-TMEM100 antibody

TMEM100 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289154	**Rabbit**	**Human (Predicted Reactivity: Bovine)**	**Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot**

PRODUCT SYNONYMS

TMEM100; Polyclonal Antibody; TMEM100 Antibody (C-term); Transmembrane protein 100; anti-TMEM100 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TMEM100 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 93-122 amino acids from the C-terminal region of human TMEM100.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	93-122
Sequence Length	134
Applicable Applications for anti-TMEM100 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Plays a role during embryonic arterial endothelium differentiation and vascular morphogenesis through the ACVRL1 receptor-dependent signaling pathway upon stimulation by bone morphogenetic proteins, such as GDF2/BMP9 and BMP10. Involved in the regulation of nociception, acting as a modulator of the interaction between TRPA1 and TRPV1, two molecular sensors and mediators of pain signals in dorsal root ganglia (DRG) neurons. Mechanistically, it weakens their interaction, thereby releasing the inhibition of TRPA1 by TRPV1 and increasing the single-channel open probability of the TRPA1-TRPV1 complex.
Cellular Location	Cell membrane; Multi-pass membrane protein. Membrane; Multi-pass membrane protein Perikaryon. Cytoplasm, perinuclear region. Endoplasmic reticulum Note=Colocalized with HSPA5 in the endoplasmic reticulum (ER) Enriched in ER microsome. Colocalized with BMP4 in neural cell bodies and neural fibers of the enteric nervous system.
Tissue Location	Expressed in neurons of the myenteric and submucosal plexuses in the gastric body, jejunum and proximal colon. Expressed in arterial endothelial cells and neurons of the central nervous system and peripheral nervous system. Expressed in umbilical artery endothelial cells (at protein level)
Preparation and Storage	Maintain refrigerated at 2-8°C. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES

WB (Western Blot)
All lanes : Anti-TMEM100 Antibody (C-term) at 1:2000 dilution Lane 1: A549 whole cell lysate Lane 2: NCI-H460 whole cell lysate Lane 3: SH-SY5Y whole cell lysate Lane 4: U-87 MG whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-RabbitIgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 14 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

FCM/FACS (Flow Cytometry)
TMEM100 Antibody (C-term) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IHC (Immunohiostchemistry)
TMEM100 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TMEM100 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

WB (Western Blot)
TMEM100 Antibody (C-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the TMEM100 antibody detected the TMEM100 protein (arrow).

ADDITIONAL INFORMATION

Product Categories/Family for anti-TMEM100 antibody	Cell Biology
References	de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009) Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	153792480
NCBI GeneID	55273
NCBI Accession #	NP_001093110.1; NP_060756.2
NCBI GenBank Nucleotide #	NM_001099640.1
UniProt Accession #	Q9NV29; Q96FZ0; D3DTY7; I3L214
Molecular Weight	14386
NCBI Official Full Name	transmembrane protein 100
NCBI Official Synonym Full Names	transmembrane protein 100
NCBI Official Symbol	TMEM100
NCBI Protein Information	transmembrane protein 100
UniProt Protein Name	Transmembrane protein 100
UniProt Gene Name	**TMEM100**
UniProt Entry Name	TM100_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/tmem100-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/289154