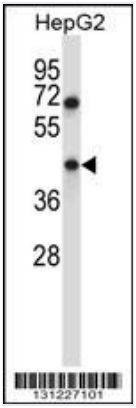
TMEM49 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TMEM49, Polyclonal Antibody
Full Product Name	TMEM49, CT (VMP1, TDC1, TMEM49, Vacuole membrane protein 1, Transmembrane protein 49) (AP)
Product Gene Name	anti-TMEM49 antibody
Product Synonym Names	VMP1; TDC1; TMEM49; Vacuole membrane protein 1; Transmembrane protein 49
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,148 Da
OMIM	611753
3D Structure	ModBase 3D Structure for Q96GC9
Immunogen	TMEM49 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 376-406 amino acids from the C-terminal region of human TMEM49.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-TMEM49 antibody	Antibodies; Transmembrane Proteins
Applications Tested/Suitable for anti-TMEM49 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-TMEM49 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TMEM49 antibody	Stress-induced protein that, when overexpressed, promotes formation of intracellular vacuoles followed by cell death. May be involved in the cytoplasmic vacuolization of acinar cells during the early stage of acute pancreatitis (By similarity).
Product References and Citations for anti-TMEM49 antibody	Pardo, R., et al. Pancreatology 10(1):19-26(2010). Calvo-Garrido, J., et al. Mol. Biol. Cell 19(8):3442-3453(2008). Fujita, S., et al. J. Mol. Biol. 378(3):492-504(2008). Sauermann, M., et al. Oncogene 27(9):1320-1326(2008). Ropolo, A., et al. J. Biol. Chem. 282(51):37124-37133(2007).
Other Notes	Small volumes of anti-TMEM49 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.
Searchable Terms for TMEM49 purchase	MBS6356471 is an antibody targeting TMEM49. Also known as TMEM49, CT (VMP1, TDC1, TMEM49, Vacuole membrane protein 1, Transmembrane protein 49) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TMEM49 antibody
TMEM49 Antibody (C-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the TMEM49 antibody detected the TMEM49 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TMEM49. It may not necessarily be applicable to this product.

NCBI GI #	20070349
NCBI GeneID	81671
NCBI Accession #	NP_112200.2
UniProt Primary Accession #	Q96GC9
UniProt Secondary Accession #	Q9H0P4; Q9P089; B4DVV9
UniProt Related Accession #	Q96GC9
GenBank Nucleotide #	NM_030938.4
NCBI Official Full Name	vacuole membrane protein 1 isoform 1
NCBI Official Synonym Full Names	vacuole membrane protein 1
NCBI Official Symbol	VMP1
NCBI Official Synonym Symbols	EPG3; TANGO5; TMEM49
UniProt Protein Name	Vacuole membrane protein 1
UniProt Synonym Protein Names	Transmembrane protein 49
UniProt Gene Name	VMP1
UniProt Synonym Gene Names	TDC1; TMEM49
NCBI Protein Information	vacuole membrane protein 1
NCBI Summary for TMEM49	This gene encodes a transmembrane protein that plays a key regulatory role in the process of autophagy. The ectopic overexpression of the encoded protein in cultured cells triggers autophagy even under nutrient-rich conditions. This gene is overexpressed in pancreatitis affected acinar cells where the encoded protein mediates sequestration and degradation of potentially deleterious activated zymogen granules in a process termed, zymophagy. [provided by RefSeq, Jul 2016]
UniProt Comments for TMEM49	Stress-induced protein that, when overexpressed, promotes formation of intracellular vacuoles followed by cell death. May be involved in the cytoplasmic vacuolization of acinar cells during the early stage of acute pancreatitis. Plays a role in the initial stages of the autophagic process through its interaction with BECN1 (). Involved in cell-cell adhesion. Plays an essential role in formation of cell junctions.
Research Articles on TMEM49	**1.** It has been concluded that VMP1-mediated autophagy cooperated with Kras to promote pancreatic ductal adenocarcinoma initiation.

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