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TMEM49 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13559b

Specification

TMEM49 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q96GC9
Other Accession	Q91ZQ0, Q99KU0, NP_112200.2
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**377-406**

TMEM49 Antibody (C-term) - Additional Information

Gene ID 81671

Other Names
Vacuole membrane protein 1, Transmembrane protein 49, VMP1, TDC1, TMEM49

Target/Specificity
This TMEM49 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 377-406 amino acids of human TMEM49.

Dilution
WB~~1:1000

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.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TMEM49 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TMEM49 Antibody (C-term) - Protein Information

Name VMP1 {ECO:0000303|PubMed:28890335, ECO:0000312|HGNC:HGNC:29559}

Function Phospholipid scramblase involved in lipid homeostasis and membrane dynamics processes (PubMed:33850023, PubMed:33929485). Has phospholipid scramblase activity toward

cholesterol and phosphatidylserine, as well as phosphatidylethanolamine and phosphatidylcholine (PubMed:33850023, PubMed:33929485). Required for autophagosome formation: participates in early stages of autophagosome biogenesis at the endoplasmic reticulum (ER) membrane by reequilibrating the leaflets of the ER as lipids are extracted by ATG2 (ATG2A or ATG2B) to mediate autophagosome assembly (PubMed:28890335, PubMed:30093494, PubMed:30933966, PubMed:33850023, PubMed:33929485). Regulates ATP2A2 activity to control ER-isolation membrane contacts for autophagosome formation (PubMed:28890335). In addition to autophagy, involved in other processes in which phospholipid scramblase activity is required (PubMed:31526472, PubMed:33850023). Modulates ER contacts with lipid droplets, mitochondria and endosomes (PubMed:28890335). Plays an essential role in formation of cell junctions (PubMed:17724469). Upon stress such as bacterial and viral infection, promotes formation of cytoplasmic vacuoles followed by cell death (By similarity). Involved in the cytoplasmic vacuolization of acinar cells during the early stage of acute pancreatitis (By similarity).

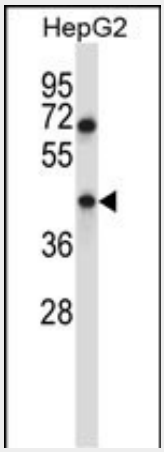
Cellular Location
Endoplasmic reticulum-Golgi intermediate compartment membrane {ECO:0000250|UniProtKB:Q91ZQ0}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Vacuole membrane {ECO:0000250|UniProtKB:Q91ZQ0}; Multi- pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein

TMEM49 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TMEM49 Antibody (C-term) - Images



TMEM49 Antibody (C-term) (Cat. #AP13559b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the TMEM49 antibody detected the TMEM49 protein (arrow).

TMEM49 Antibody (C-term) - Background

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).

TMEM49 Antibody (C-term) - References

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)