

跨膜蛋白 49 抗体

产品货号： mlR6740

英文名称： TMEM49

中文名称： 跨膜蛋白 49 抗体

别名： Vacuole membrane protein 1; DKFZP566I133; TDC1; TMEM49; Transmembrane protein 49; vmp1; VMP1_HUMAN.

研究领域： 肿瘤 心血管 细胞生物 肿瘤细胞生物标志物 细胞自噬 细胞膜蛋白

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Pig, Horse, Rabbit,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500
(石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量：46kDa

细胞定位：细胞浆 细胞膜

性状：Lyophilized or Liquid

浓度：1mg/ml

免疫原：KLH conjugated synthetic peptide derived from human TMEM49:361-406/406 <Extracellular>

亚型：IgG

纯化方法：affinity purified by Protein A

储存液：0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件：Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed：PubMed

产品介绍：Vacuole membrane protein 1 (VMP1)/TMEM49 is a transmembrane protein localized to intracellular vacuoles and was discovered as a protein that promotes vacuole formation in acinar cells associated

with acute pancreatitis (1). Over-expression of VMP1 promotes vacuole formation and subsequent cell death (1). Subsequent studies have shown that VMP1 expression is induced by starvation and the mTOR inhibitor, rapamycin, and can trigger autophagy (2). VMP1 is targeted, along with LC3, to autophagosome membranes (2). Knockdown of VMP1 can inhibit autophagosome formation (2). VMP1 interacts with Beclin-1, a key autophagy protein that activates the Class III PI3 kinase Vps34, which is regulated by a large network of associated proteins (3). VMP1 functions in the degradation and clearance of zymogen-containing vacuoles during experimental pancreatitis (4). During this process, VMP1 interacts with the ubiquitin protease USP9X, suggesting a possible functional link between the molecular machinery of autophagy and the ubiquitin pathway. Orthologues of VMP1 have been reported in *C. elegans* (known as EPG-3), *Drosophila* (known as TANGO-5), and *Dictyostelium*, and have been shown to play a role in membrane trafficking, organelle organization, and autophagy (5-7).

Function:

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 (By similarity). Involved in cell-cell adhesion. Plays an essential role in formation of cell junctions. Sequence similarities: Belongs to the VMP1 family.

Subunit:

Belongs to the VMP1 family.

Subcellular Location:

Endoplasmic reticulum-Golgi intermediate compartment membrane. Cell membrane. Vacuole membrane. Endoplasmic reticulum.

Similarity:

Belongs to the VMP1 family.

SWISS:

Q96GC9

Gene ID:

81671

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

