

# Product Information

## MemDX™ Membrane Protein Human VMP1 (Vacuole membrane protein 1) for Antibody

### Discovery

Cat. No.: **MP1421X**

This product is for research use only and is not intended for diagnostic use.

This product is a 72.6 kDa Human VMP1 membrane protein expressed in *In vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

VMP1

#### Protein Length

Full-length

#### Molecular Weight

72.6 kDa

#### TMD

7

#### Sequence

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHRQSIVVSFLLLLLA

### Product Description

#### Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

#### Expression Systems

*in vitro* wheat germ expression system

#### Tag

GST-tag at N-terminal

#### Protein Format

Liposome

#### Form

Liquid

#### **Purification**

Glutathione Sepharose 4 Fast Flow

#### **Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

#### **Storage**

Store at +4°C for up to one week or several months at -80°C

### **Target**

#### **Target Protein**

VMP1

#### **Full Name**

Vacuole membrane protein 1

#### **Introduction**

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.

#### **Alternative Names**

EPG3; TANGO5; TMEM49; vacuole membrane protein 1; ectopic P-granules autophagy protein 3 homolog; transmembrane protein 49; transport and golgi organization 5 homolog

#### **Gene ID**

[81671](#)

#### **UniProt ID**

[Q96GC9](#)