

## Product Information

### MemDX™ Membrane Protein Mouse Sacm1I (SAC1 suppressor of actin mutations 1-like (yeast)) Expressed *in vitro* *E.coli* expression system, Full Length

Cat. No.: **MPX1943K**

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

This product is a Mouse Sacm1I membrane protein expressed *in vitro* *E.coli* 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

Mouse

##### Target Protein

Sacm1I

##### Protein Length

Full Length

##### Protein Class

Receptor

##### TMD

2

##### Sequence

MAAAAYEHLKLHITPEKFYVEACDDGADDVLIIDRVSTEVTLAVKKDVPPSAVTRPIFGILGTIHLVAGNYLVVITKKMKVGECFNHAW

#### Product Description

##### Expression Systems

*in vitro* *E.coli* expression system

##### Tag

10xHis tag at the N-terminus

##### Protein Format

Soluble

##### Form

Liquid or Lyophilized powder

##### Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### **Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

### **Target**

#### **Target Protein**

Sacm1l

#### **Full Name**

SAC1 suppressor of actin mutations 1-like (yeast)

#### **Introduction**

This gene encodes an integral membrane protein, which is localized to the endoplasmic reticulum, and functions as a phosphoinositide phosphatase that hydrolyzes phosphatidylinositol 3-phosphate, phosphatidylinositol 4-phosphate, and phosphatidylinositol 3,5-bisphosphate. Deletion of this gene in mouse results in preimplantation lethality. Other studies suggest that this gene is also involved in the organization of golgi membranes and mitotic spindles. Two isoforms are predicted to be produced from the same mRNA by the use of alternative in-frame translation termination codons via a stop codon readthrough mechanism.

#### **Alternative Names**

Sacm1l; SA; SAC1; Sac1p; mKIAA0851; phosphatidylinositol-3-phosphatase SAC1; phosphatidylinositide phosphatase SAC1; phosphatidylinositol-4-phosphate phosphatase; polyphosphatidylinositol phosphatase; suppressor of actin mutations 1-like protein; SAC1 suppressor of actin mutations 1-like (yeast)

#### **Gene ID**

[83493](#)

#### **UniProt ID**

[Q9EP69](#)