

# Product Information

## **MemDX™ Membrane Protein Human ATAD3A (ATPase family AAA domain containing 3A)**

### **Expressed *in vitro* E.coli expression system, Full Length of Mature Protein**

Cat. No.: **MPX1968K**

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

This product is a Human ATAD3A 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**

Human

#### **Target Protein**

ATAD3A

#### **Protein Length**

Full Length of Mature Protein

#### **Protein Class**

Receptor

#### **TMD**

1

#### **Sequence**

SWLFGINKGPKGEGAGPPPPLPPAQPAGGGDRGLGDRPAPKDKWSNFDPTGLERAACAARELEHSRYAKDALNLAQMQEQT

### 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

ATAD3A

#### Full Name

ATPase family AAA domain containing 3A

#### Introduction

This gene encodes a ubiquitously expressed mitochondrial membrane protein that contributes to mitochondrial dynamics, nucleoid organization, protein translation, cell growth, and cholesterol metabolism. This gene is a member of the ATPase family AAA-domain containing 3 gene family which, in humans, includes two other paralogs. Naturally occurring mutations in this gene are associated with distinct neurological syndromes including Harel-Yoon syndrome. High-level expression of this gene is associated with poor survival in breast cancer patients. A homozygous knockout of the orthologous gene in mice results in embryonic lethality at day 7.5 due to growth retardation and defective development of the trophoblast lineage. Alternative splicing results in multiple transcript variants.

#### Alternative Names

ATAD3A; HAYOS; PHRINL; ATPase family AAA domain-containing protein 3A; ATPase family AAA domain containing 3A

#### Gene ID

[55210](#)

#### UniProt ID

[Q9NVI7](#)