

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

SWLFGINKGPKGEGAGPPPLPPAQPGAEGGGDRGLGDRPAPDKWSNFDPTGLERAAKAARELEHSRYAKDALNLAQMQEQT

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](#)