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Product Information

MemDX™ Membrane Protein Human AIFM1 (Apoptosis inducing factor mitochondria associated 1 expressed in *in vitro* wheat germ expression system) for Antibody Discovery

Cat. No.: **MP0029X**
This product is for research use only and is not intended for diagnostic use.

This product is a 93.3 kDa Human AIFM1 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
AIFM1

Protein Length
Full-length

Molecular Weight
93.3 kDa

Sequence
MFRCGGLAAGALKQKLVPLVRTVCVRSPRQRNRLPGNLFQRWHVPLELQMTRQMASSGASGGKIDNSVLVLIVGLSTVGAGAYAY

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

Form
Liquid

Purification
Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

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

Target

Target Protein

AIFM1

Full Name

Apoptosis inducing factor mitochondria associated 1

Introduction

This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. In addition, this gene product induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. Mutations in this gene cause combined oxidative phosphorylation deficiency 6 (COXPD6), a severe mitochondrial encephalomyopathy, as well as Cowchock syndrome, also known as X-linked recessive Charcot-Marie-Tooth disease-4 (CMTX-4), a disorder resulting in neuropathy, and axonal and motor-sensory defects with deafness and cognitive disability. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 10

Alternative Names

AIF; MGC111425; PDCD8; OTTHUMP00000024007; OTTHUMP00000024008; OTTHUMP00000024009; programmed cell death 8; programmed cell death 8 (apoptosis-inducing factor); striatal apoptosis-inducing factor

Gene ID

9131

UniProt ID

O95831

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