

Datasheet for ABIN652786  
**anti-MFN2 antibody (AA 447-476)**[Go to Product page](#)

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## Overview

Quantity:	400 µL
Target:	MFN2
Binding Specificity:	AA 447-476
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MFN2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

## Product Details

Immunogen:	This MFN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 447-476 amino acids from the Central region of human MFN2.
Clone:	RB21136
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	MFN2
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## Target Details

Alternative Name:	MFN2 ( <a href="#">MFN2 Products</a> )
Background:	MFN2 is a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system.
Molecular Weight:	86402
Gene ID:	9927
NCBI Accession:	<a href="#">NP_001121132</a> , <a href="#">NP_055689</a>
UniProt:	<a href="#">O95140</a>
Pathways:	<a href="#">Skeletal Muscle Fiber Development</a>

## Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:25. FC: 1:10~50
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

## Publications

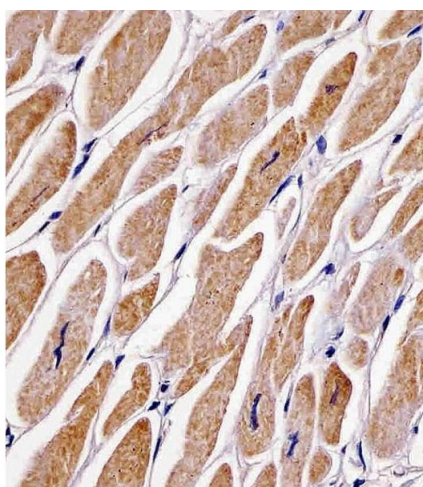
Product cited in:	Jiang, Wang, Wang, Xu, Xu, Tang, Sun, Wang, Zhang: "Enolase1 (ENO1) and glucose-6-
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phosphate isomerase (GPI) are good markers to predict human sperm freezability." in:

**Cryobiology**, Vol. 71, Issue 1, pp. 141-5, (2015) ([PubMed](#)).

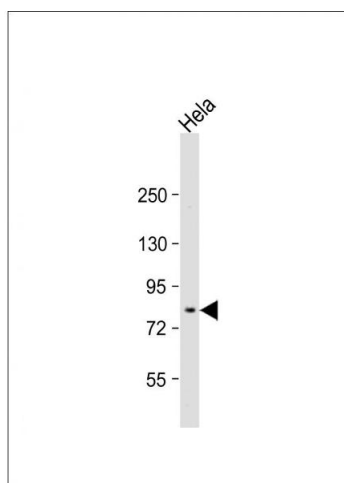
Zhao, Li, Liao, Luo, Shi, Feng, Chen: "Evodiamine Induces Apoptosis and Inhibits Migration of HCT-116 Human Colorectal Cancer Cells." in: **International journal of molecular sciences**, Vol. 16, Issue 11, pp. 27411-21, (2015) ([PubMed](#)).

## Images



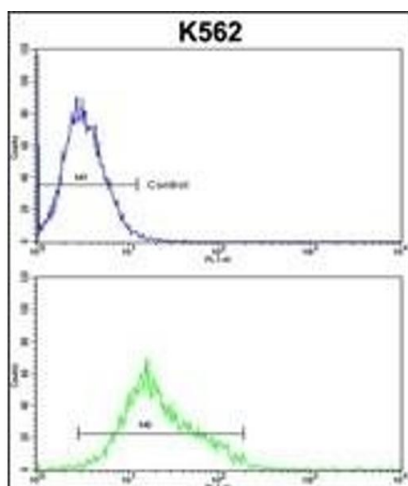
### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** C staining MFN2 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0.5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hour at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



### Western Blotting

**Image 2.** Anti-MFN2 Antibody (Center) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 86 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



### Flow Cytometry

**Image 3.** MFN2 Antibody (Center) (ABIN652786 and ABIN2842515) flow cytometric analysis of k562 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.