Anti-AIFM1 antibody

Cat. No.	ml120201
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-AIFM1 rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human AIFM1
Reactivity	Human, Mouse, Rat
Content	0.2 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	AIFM1
Full name	apoptosis-inducing factor, mitochondrion-associated, 1
Synonyms	AIF, PDCD8, COXPD6
Swissprot	O95831

Target Background

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, which results in a severe mitochondrial encephalomyopathy. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 10.
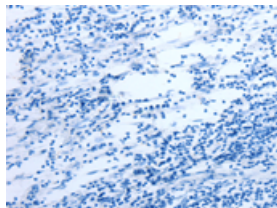
Applications

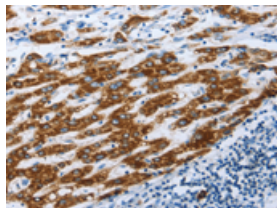### Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human liver cancer

Recommended dilution: 25-100

Predicted cell location: Cytoplasm

Positive control: Human colon cancer

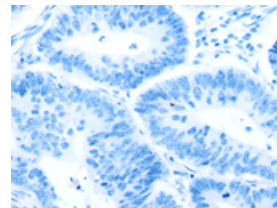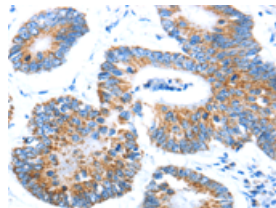Recommended dilution: 25-100

The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using ml120201(AIFM1 Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: ×200)

The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using ml120201(AIFM1 Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: ×200)

Western blotting

Predicted band size:67 kDa

Positive control:NIH/3T3 , Hela and 293T cells
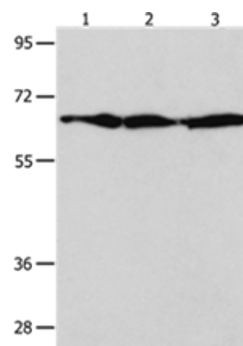
Recommended dilution: 500-2000

Gel: 10+12%SDS-PAGE

Lysate: 30 µg

Lane 1-3: NIH/3T3 cells, Hela cells, 293T cells

Primary antibody: ml120201(AIFM1 Antibody) at dilution 1/600

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 20 seconds

ELISA

Recommended dilution: 1000-5000

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