

AIFM1 Rabbit mAb (AR1402)

Key Features

Host Species:	Rabbit
Reactivity:	Human,Mouse,Rat
Applications:	WB,IHC,IF,IP,ELISA
Isotype:	IgG,Kappa
MW:	67kD (Calculated) 67kD (Observed)

Recommended Dilution Ratios

IHC:	1:200-1000
WB:	1:2000-10000
IF:	1:200-1000
ELISA:	1:5000-20000
IP:	1:50-200

Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

Basic Information

Clonality	Monoclonal
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Immunogen Information

Specificity	Endogenous
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Target Information

Gene name	AIFM1 ALF PDCD8
Protein Name	Apoptosis-inducing factor 1 mitochondrial Organism Human Gene I

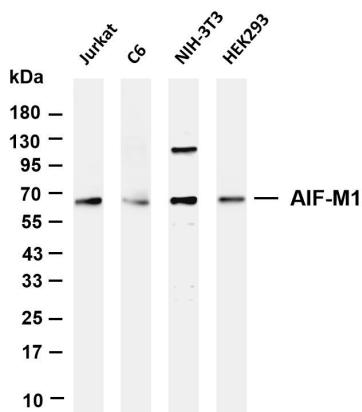
Organism	Gene ID	UniProt ID
Human	9131	O95831
Mouse	26926	Q9Z0X1
Rat	83533	Q9JM53

Cellular Localization	Mitochondrion intermembrane space. Mitochondrion inner membrane. Cytoplasm. Nucleus. Cytoplasm, perinuclear region. Proteolytic cleavage during or just after translocation into the
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mitochondrial intermembrane space (IMS) results in the formation of an inner membrane-anchored mature form (AIFmit). During apoptosis, further proteolytic processing leads to a mature form, which is confined to the mitochondrial IMS in a soluble form (AIFsol). AIFsol is released to the cytoplasm in response to specific death signals, and translocated to the nucleus, where it induces nuclear apoptosis (PubMed:15775970). Colocalizes with EIF3G in the nucleus and perinuclear region (PubMed:17094969); [Isoform 3]: Mitochondrion intermembrane space. Mitochondrion inner membrane. Has a stronger membrane anchorage than isoform 1; [Isoform 4]: Mitochondrion. Cytoplasm, cytosol. In pro-apoptotic conditions, is released from mitochondria to cytosol in a calpain/cathepsin-dependent manner.; [Isoform 5]: Cytoplasm. Expressed in all tested tissues (PubMed:16644725). Detected in muscle and skin fibroblasts (at protein level) (PubMed:23217327). Expressed in osteoblasts (at protein level) (PubMed:28842795); [Isoform 3]: Brain specific; [Isoform 4]: Expressed in all tested tissues except brain; [Isoform 5]: Isoform 5 is frequently down-regulated in human cancers.

Tissue specificity

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-AIF-M1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.

Lane 1: Jurkat

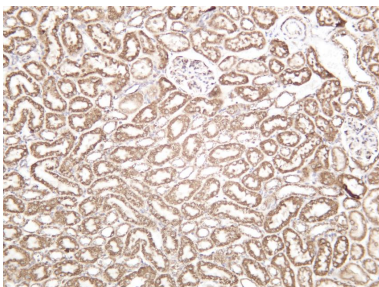
Lane 2: C6

Lane 3: NIH-3T3

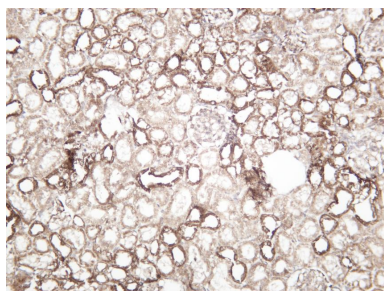
Lane 4: HEK293

Predicted band size: 67kDa

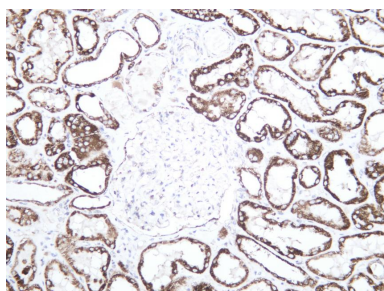
Observed band size: 67kDa



Mouse kidney was stained with anti-AIF-M1 rabbit antibody



Rat kidney was stained with anti-AIF-M1 rabbit antibody



Human kidney was stained with anti-AIF-M1 rabbit antibody

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