AIFM1 Recombinant Antibody

RACO0236

Product Information

Size:

50ul

Reactivity:

Human, Rat

Source:

Homo sapiens (Human)

Isotype:

Rabbit IgG

Applications:

ELISA, WB, IHC

Recommended dilutions:

WB:1:500-1:5000, IHC:1:50-1:200

Protein Background:

Functions both as NADH oxidoreductase and as regulator of apoptosis. In response to apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway. In contrast, functions as an antiapoptotic factor in normal mitochondria via its NADH oxidoreductase activity. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i. e. caspase-independent fragmentation of chromosomal DNA. Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates casapse-7 to amplify apoptosis. Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells. Binds to DNA in a sequence-independent manner.

Gene ID:

AIFM1

Uniprot

O95831

Synonyms:

Apoptosis-inducing factor 1, mitochondrial (EC 1.1.1. -) (Programmed cell death protein 8), AIFM1, AIF PDCD8

Immunogen:

A synthesized peptide derived from human AIF.

Storage:

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

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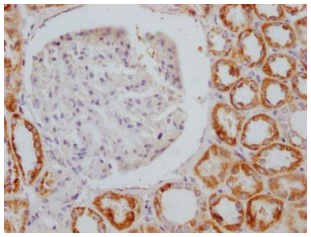
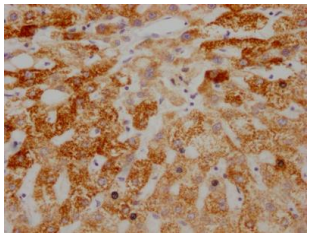
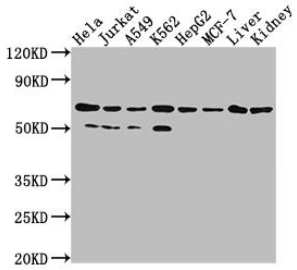
Product Images



IHC image of RACO0236 diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of RACO0236 diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Western Blot
Positive WB detected in(Hela whole cell lysate) Jurkat whole cell lysate) A549 whole cell lysate) HepG2 whole cell lysate) MCF-7 whole cell lysate) Rat liver tissue, Rat kidney tissue
All lanes: AIFM1 antibody at 1:2000
Secondary
Goat polyclonal to rabbit IgG at 1:50000 dilution
Predicted band size: 67, 36, 29, 27 kDa
Observed band size: 67 kDa