abcam

Product datasheet

Anti-AIF antibody ab99437

1 References 画像数 3

製品の概要

製品名 Anti-AlF antibody

製品の詳細 Rabbit polyclonal to AIF

由来種 Rabbit

アプリケーション 適用あり: WB, IP, IHC-P

種交差性 交差種: Human

交差が予測される動物種: Mouse, Rabbit, Horse, Chicken, Cow, Dog, Turkey, Pig, Zebrafish,

Rhesus monkey, Gorilla, Orangutan, Medaka fish

免疫原 Synthetic peptide corresponding to Human AIF aa 550-650. 563-613 of Human AIF

(NP 004199.1)

Database link: **<u>095831-1</u>**

ポジティブ・コントロール HeLa and 293T cell lines.

特記事項 The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

パッファー pH: 6.8

Preservative: 0.09% Sodium azide

Constituents: 0.1% BSA, Tris buffered saline

精製度 Immunogen affinity purified

ポリ/モノ ポリクローナル

アイソタイプ lgG

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab99437の使用に適用されますアプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/2000 - 1/10000. Predicted molecular weight: 67 kDa.
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

機能

Probable oxidoreductase that has a dual role in controlling cellular life and death; during apoptosis, it is translocated from the mitochondria to the nucleus to function as a proapoptotic factor in a caspase-independent pathway, while in normal mitochondria, it functions as an antiapoptotic factor via its oxidoreductase activity. The soluble form (AlFsol) found in the nucleus induces 'parthanatos' i.e., caspase-independent fragmentation of chromosomal DNA. Interacts with ElF3G,and thereby inhibits the ElF3 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.

関連疾患

Defects in AIFM1 are the cause of combined oxidative phosphorylation deficiency type 6 (COXPD6) [MIM:300816]. It is a mitochondrial disease resulting in a neurodegenerative disorder characterized by psychomotor delay, hypotonia, areflexia, muscle weakness and wasting.

配列類似性

Belongs to the FAD-dependent oxidoreductase family.

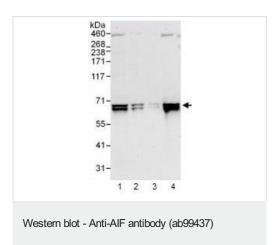
翻訳後修飾

Under normal conditions, a 54-residue N-terminal segment is first proteolytically removed during or just after translocation into the mitochondrial intermembrane space (IMS) by the mitochondrial processing peptidase (MPP) to form the inner-membrane-anchored mature form (AlFmit). During apoptosis, it is further proteolytically processed at amino-acid position 101 leading to the generation of the mature form, which is confined to the mitochondrial IMS in a soluble form (AlFsol). AlFsol is released to the cytoplasm in response to specific death signals, and translocated to the nucleus, where it induces nuclear apoptosis in a caspase-independent manner

細胞内局在

Mitochondrion intermembrane space. Mitochondrion inner membrane. Cytoplasm. Nucleus. Cytoplasm > perinuclear region. Proteolytic cleavage during or just after translocation into the mitochondrial intermembrane space (IMS) results in the formation of an inner-membrane-anchored mature form (AlFmit). During apoptosis, further proteolytic processing leads to a mature form, which is confined to the mitochondrial IMS in a soluble form (AlFsol). AlFsol is released to the cytoplasm in response to specific death signals, and translocated to the nucleus, where it induces nuclear apoptosis. Colocalizes with ElF3G in the nucleus and perinuclear region.

画像

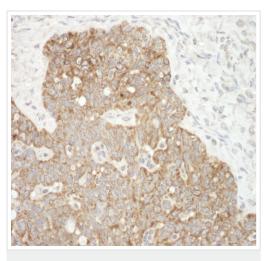


All lanes: Anti-AlF antibody (ab99437) at 0.04 μg/ml

Lane 1: HeLa whole cell lysate at 50 μg Lane 2: HeLa whole cell lysate at 15 μg Lane 3: HeLa whole cell lysate at 5 μg Lane 4: 293T whole cell lysate at 50 μg

Developed using the ECL technique.

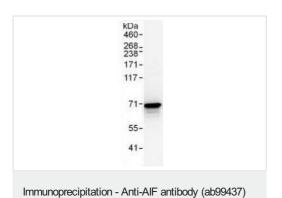
Predicted band size: 67 kDa



Exposure time: 30 seconds

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue labelling AIF with ab99437 at 1/1000 (1 μ g/mg). Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-AIF antibody (ab99437)



Immunoprecipitation : 1 mg of HeLa cell lysate immunoprecipitated with ab99437 at 3 µg/mg lysate; 20% of

immunoprecipitate loaded in lane

Western Blot: AIF antibody (ab99437) at 0.4 $\mu g/ml$

developed using the ECL technique

Exposure time: 10 seconds

Predicted band size: 67 kDa

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