

Anti-AIF antibody ab137725

画像表示

医薬用外劇物

製品の概要

| | |
|--------------|---|
| 製品名 | Anti-AIF 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, IHC-P, ICC/IF |
| 種交差性 | 交差種: Mouse, Human 交差が予測される動物種: Rat, Cow  |
| 免疫原 | Recombinant fragment corresponding to Human AIF aa 50-350. Corresponding to a region within amino acids 82-330 of Human AIF. Database link: O95831-1 |
| ポジティブ・コントロール | H1299, HepG2 and Mouse liver whole cell lysates; SW480 xenograft tissue; HeLa cells; 293T, A431, Molt4 and Raji |
| 特記事項 | <p>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.</p> <p>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</p> |

製品の特性

| | |
|--------|---|
| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| バッファー | pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine) |
| 精製度 | Immunogen affinity purified |
| ポリ/モノ | ポリクローナル |
| アイソタイプ | IgG |

アプリケーション

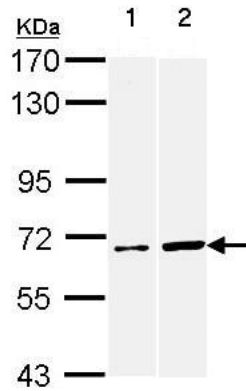
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab137725の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション | Abreviews | 特記事項 |
|----------|-----------|---|
| WB | | 1/500 - 1/3000. Predicted molecular weight: 67 kDa. |
| IHC-P | | 1/100 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol using 10mM Citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0). |
| ICC/IF | | 1/100 - 1/1000. |

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 (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 caspase-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 (AIFmit). 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 (AIFsol). AIFsol 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 (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. Colocalizes with EIF3G in the nucleus and perinuclear region. |

画像



Western blot - Anti-AIF antibody (ab137725)

All lanes : Anti-AIF antibody (ab137725) at 1/1000 dilution

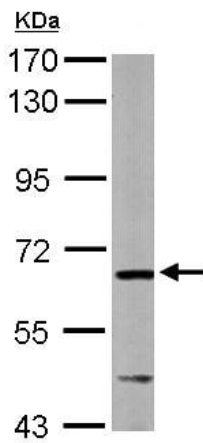
Lane 1 : H1299 whole cell lysate

Lane 2 : HepG2 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 67 kDa

7.5% SDS PAGE

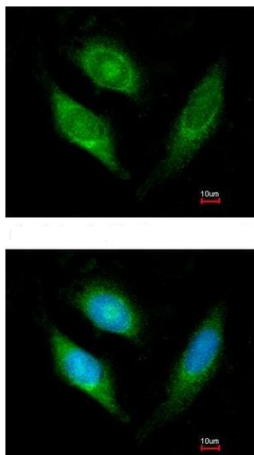


Western blot - Anti-AIF antibody (ab137725)

Anti-AIF antibody (ab137725) at 1/1000 dilution + Mouse liver whole cell lysate at 50 µg

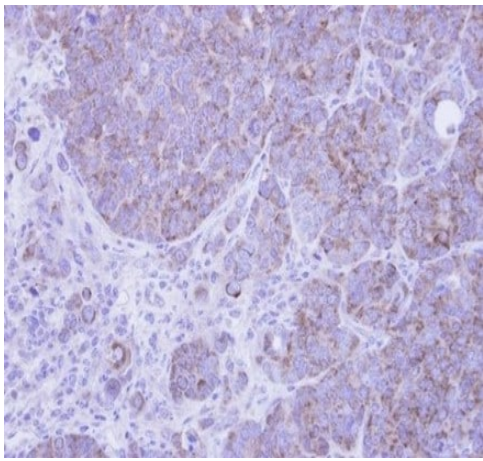
Predicted band size: 67 kDa

7.5% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-AIF antibody (ab137725)

Immunofluorescent analysis of methanol-fixed HeLa cells labelling AIF with ab137725 at 1/200 dilution. Lower panel shows costaining with Hoechst 33342.



Immunohistochemical analysis of paraffin-embedded SW480 xenograft tissue labelling AIF with ab137725 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AIF antibody (ab137725)

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