

# Anti-AIF antibody ab2086

[2 References](#) [3 图像](#)

### 概述

产品名称	Anti-AIF 抗体
描述	兔多克隆抗体 to AIF
宿主	Rabbit
经测试应用	适用于: ICC, WB
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide: KDGEQHEDLNEVAK , corresponding to amino acids 593 - 606 of Human AIF. <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
阳性对照	WB: CaCo-2, Daudi, HeLa, K562, NIH3T3 and YB2/0 cell lysate. ICC: K562 cells
常规说明	Apoptosis Inducing Factor. <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&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.2 Preservative: 0.02% Sodium azide
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab2086于以下的经测试应用

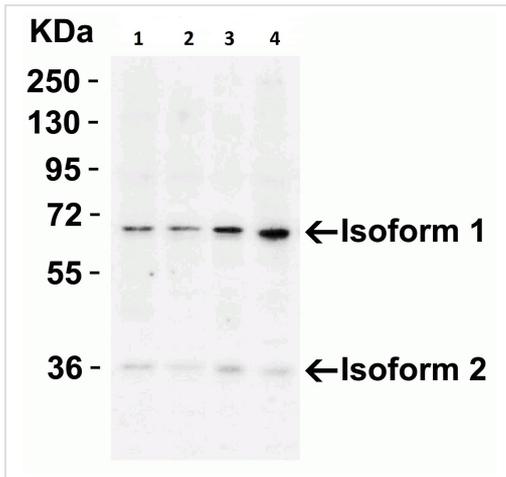
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC		Use at an assay dependent concentration.
WB		Use a concentration of 0.25 - 1 µg/ml. Detects a band of approximately 67 kDa (predicted molecular weight: 67 kDa).

## 靶标

<b>功能</b>	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.
<b>疾病相关</b>	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.
<b>序列相似性</b>	Belongs to the FAD-dependent oxidoreductase family.
<b>翻译后修饰</b>	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.
<b>细胞定位</b>	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.

## 图片



Western blot - Anti-AIF antibody (ab2086)

**All lanes :** Anti-AIF antibody (ab2086) at 2 µg/ml

**Lane 1 :** CACO-2 cell lysate

**Lane 2 :** Daudi cell lysate

**Lane 3 :** HeLa cell lysate

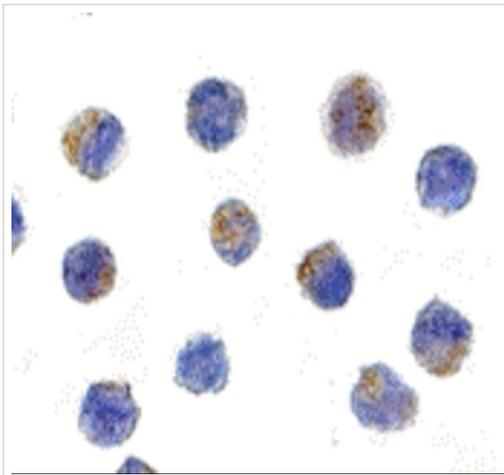
**Lane 4 :** K562 cell lysate

Lysates/proteins at 15 µg per lane.

#### Secondary

**All lanes :** Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

**Predicted band size:** 67 kDa



Immunocytochemistry - Anti-AIF antibody (ab2086)

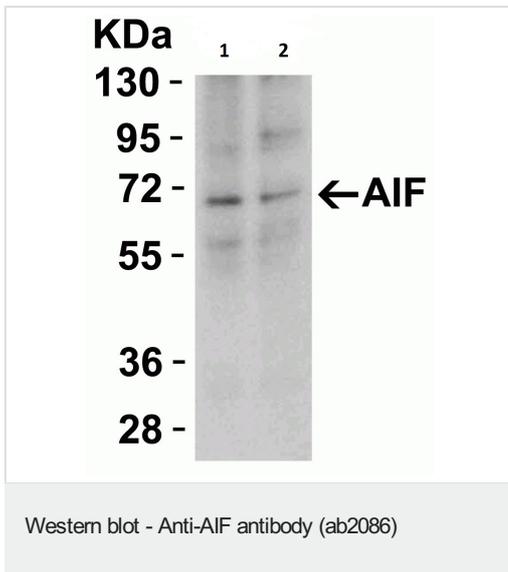
Immunocytochemical analysis of K562 cells with ab2086 at 5 µg/ml.

Cells was fixed with formaldehyde and blocked with 10% serum for

1 h at RT; antigen retrieval was by heat mediation with a citrate

buffer (pH6). A goat anti-rabbit IgG H&L (HRP) at 1/250 was used

as secondary.



**All lanes :** Anti-AIF antibody (ab2086) at 2 µg/ml

**Lane 1 :** NIH3T3 cell lysate

**Lane 2 :** YB2/0 cell lysate

Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes :** Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

**Predicted band size:** 67 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors