

Datasheet for ABIN724010

anti-AIF antibody (AA 131-230)

10 Images

2 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	AIF (AIFM1)
Binding Specificity:	AA 131-230
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AIF antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human AIF
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	AIF (AIFM1)
---------	-------------

Target Details

Alternative Name:	AIF (AIFM1 Products)
Background:	<p>Synonyms: AIF, CMT2D, CMTX4, COWCK, NADMR, NAMSD, PDCD8, COXPD6, Apoptosis-inducing factor 1, mitochondrial, Programmed cell death protein 8, AIFM1</p> <p>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 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.</p>
Gene ID:	9131
UniProt:	O95831
Pathways:	Apoptosis , Positive Regulation of Endopeptidase Activity , Cell Redox Homeostasis , Smooth Muscle Cell Migration , Warburg Effect

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

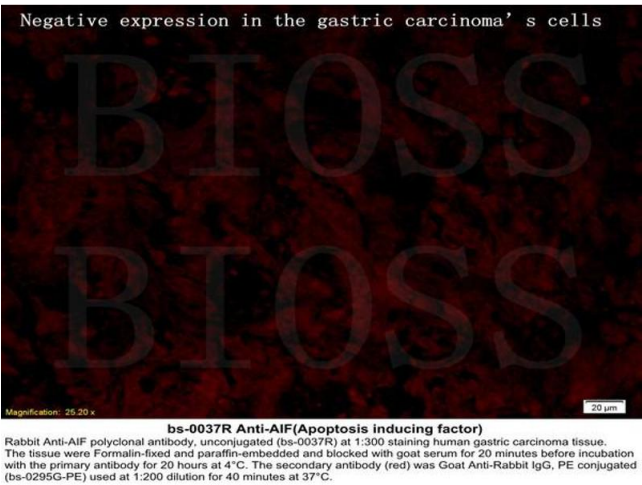
Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

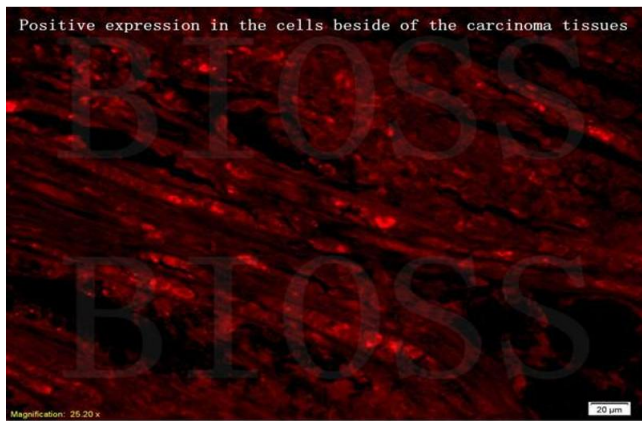
Product cited in:	<p>Li, Chen, Lu, Zhang, Guan, Li, Wang: "Anti-Oxidative Stress Activity Is Essential for Amanita caesarea Mediated Neuroprotection on Glutamate-Induced Apoptotic HT22 Cells and an Alzheimer's Disease Mouse Model." in: International journal of molecular sciences, Vol. 18, Issue 8, (2017) (PubMed).</p> <p>Gong, Hua, Zhang, Zhao, Tang, Mei, Zhang, Cui, Li: "Hypothermia-induced neuroprotection is associated with reduced mitochondrial membrane permeability in a swine model of cardiac arrest." in: Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism, Vol. 33, Issue 6, pp. 928-34, (2013) (PubMed).</p>
-------------------	--

Images

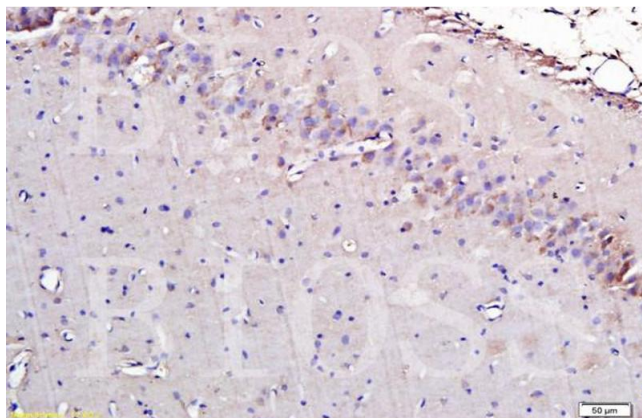


Immunofluorescence

Image 1. Formalin-fixed and paraffin embedded labeled with human gastric carcinoma Rabbit Anti-AIF Polyclonal Antibody, Unconjugated (ABIN724010) 1:300 followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, PE (Negative Control)



bs-0037R Anti-AIF(Apoptosis inducing factor)
Rabbit Anti-AIF polyclonal antibody, unconjugated (bs-0037R) at 1:300 staining human gastric carcinoma tissue. The tissue were Formalin-fixed and paraffin-embedded and blocked with goat serum for 20 minutes before incubation with the primary antibody for 20 hours at 4°C. The secondary antibody (red) was Goat Anti-Rabbit IgG, PE conjugated (bs-0295G-PE) used at 1:200 dilution for 40 minutes at 37°C.



bs-0037R Anti-AIF(Apoptosis inducing factor)
Formalin-fixed and paraffin-embedded rat brain tissue labeled with Rabbit Anti-AIF Polyclonal Antibody, Unconjugated(bs-0037R) at 1:300 followed by conjugation to the secondary antibody and DAB staining

Immunofluorescence

Image 2. Formalin-fixed and paraffin embedded labeled with human gastric carcinoma Rabbit Anti-AIF Polyclonal Antibody, Unconjugated (ABIN724010) 1:300 followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, PE

Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti-AIF Polyclonal Antibody, Unconjugated (ABIN724010) 1:300 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 10 images are available for ABIN724010.