

Product Datasheet

AlF Antibody (E20) **NB110-55446**

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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NB110-55446

AIF Antibody (E20)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	E20
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Tissue culture supernatant
Buffer	49% PBS, 0.05% BSA and 50% Glycerol
Target Molecular Weight	67 kDa
Product Description	
Host	Rabbit
Gene ID	9131
Gene Symbol	AIFM1
Species	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to residues near the C-terminus of Human AIF was used as immunogen.
Notes	Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:50, Immunohistochemistry 1:500, Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation 1:10, Immunohistochemistry-Paraffin 1:500



Publications

Huang R, Chen XQ, Huang Y et al. The multikinase inhibitor sorafenib induces caspase-dependent apoptosis in PC-3 prostate cancer cells. *Asian J Androl* 2010-07-01 [PMID: 20473320]

Chen X, Gong J, Zeng H et al. MicroRNA145 targets BNIP3 and suppresses prostate cancer progression. *Cancer Res* 2010-04-01 [PMID: 20332243]

Shen H, Hu X, Liu C et al. Ethyl pyruvate protects against hypoxic-ischemic brain injury via anti-cell death and anti-inflammatory mechanisms. *Neurobiol Dis* 2010-03-01 [PMID: 20026271] (WB)

Saito C, Lemasters JJ, Jaeschke H et al. c-Jun N-terminal kinase modulates oxidant stress and peroxynitrite formation independent of inducible nitric oxide synthase in acetaminophen hepatotoxicity. *Toxicol Appl Pharmacol* 2010-07-01 [PMID: 20423716] (WB)

Lin CY, Wu HY, Wang PL et al. Mammalian Ste20-like protein kinase 3 induces a caspase-independent apoptotic pathway. *Int J Biochem Cell Biol* 2010-01-01 [PMID: 19782762] (WB)

Bajt ML, Farhood A, Lemasters JJ et al. Mitochondrial bax translocation accelerates DNA fragmentation and cell necrosis in a murine model of acetaminophen hepatotoxicity. *J Pharmacol Exp Ther* 2008-01-01 [PMID: 17906064] (WB)

Cao G, Xing J, Xiao X et al. Critical role of calpain I in mitochondrial release of apoptosis-inducing factor in ischemic neuronal injury. *J Neurosci* 2007-08-01 [PMID: 17728442] (WB)

Ishimura R, Martin GR, Ackerman SL et al. Loss of apoptosis-inducing factor results in cell-type-specific neurogenesis defects. *J Neurosci* 2008-05-01 [PMID: 18463247] (IF/IHC)

Bajt ML, Cover C, Lemasters JJ et al. Nuclear translocation of endonuclease G and apoptosis-inducing factor during acetaminophen-induced liver cell injury. *Toxicol Sci* 2006-11-01 [PMID: 16896059] (IF/IHC)

Yu SW, Andrabi SA, Wang H et al. Apoptosis-inducing factor mediates poly(ADP-ribose) (PAR) polymer-induced cell death. *Proc Natl Acad Sci U S A* 2006-11-01 [PMID: 17116881] (ICC/IF)



Procedures



Immunohistochemistry Protocol for AIF Antibody (NB110-55446)**Immunohistochemistry Protocol for Paraffin-embedded Tissues****1. Solutions and reagents****1.1. Xylene****1.2. Ethanol, anhydrous denatured, histological grade (100%, 95%, 70%)****1.3. Washing buffer:**

TBST washing buffer: 1XTBS/0.1% Tween-20

To prepare stock solution of 10X TBS: add 24.2 g Trizma base and 80 g sodium chloride to 1L of dH₂O. Adjust pH to 7.6.

Working solution. 1XTBST/0.1% Tween-20: add 100ml 10XTBS to 900 ml dH₂O. Add 1 ml Tween-20 and mix well.

1.4. Distilled water (dH₂O)**1.5. Antigen Retrieval Solution:**

0.01M Sodium Citrate Buffer, pH 6.0

To prepare stock solutions:

Solution A. 0.1 M citric acid solution: dissolve 21.0 g of citric acid, monohydrate (C₆H₈O₇·H₂O) in 1 liter of dH₂O.

Solution B. 0.1M sodium citrate solution: dissolve 29.4 g trisodium citrate dihydrate (C₆H₅Na₃O₇·2H₂O) in 1 liter of dH₂O.

Working solution: Add 9 ml of Stock solution A and 41 ml of stock solution B to 450 ml of dH₂O. Adjust pH to 6.0.

1.6. 3% Hydrogene Peroxide**1.7. Blocking buffer:**

PBS (Dulbeccos Phosphate Buffered Salts, 1X, catalog #21-031-CV from Mediatech, Inc.) + 10% serum (serum origin depends on the host of the secondary antibody)

1.8. Hematoxylin QS (catalog #H-3404 from Vector Laboratories, Inc.)**1.9. Permanent Mounting medium (VectaMount, catalog# H-5000 Vector Laboratories, Inc.)****2. Protocol****2.1. Deparaffinization/Rehydration****2.1.1. Heat slides in an oven at 65C for 1 hour.**

2.1.2. De-paraffinize/hydrate using the following series of washes: two Xylene washes (5 min each), followed by two 100% ethanol rinses (5 min each), followed by 95% ethanol, 70% ethanol, 50% ethanol, 30% ethanol, followed by H₂O and a TBST wash for 5 min on a shaker.

2.2. Antigen Retrieval

2.2.1. Immerse slides into staining dish containing Antigen Retrieval Solution.

2.2.2. Place covered staining dish into the rice cooker. Add 120 ml of dH₂O.

2.2.3. When cook is turned to warm (about 20 to 30 min), unplug the cooker and remove the staining dish to the bench top.

2.2.4. Allow to cool down, without cover, for 20 min.

2.3. Staining

2.3.1. Wash slides with TBST for 5 min on a shaker.

2.3.2. Inactivate endogenous peroxidase by covering tissue with 3% hydrogen peroxide for 10 min.

2.3.3. Wash slides three times with TBST (3 min each on a shaker).

2.3.4. Block slides with the blocking solution for 1 hour.

2.3.5. Dilute primary antibody in the blocking buffer per recommendation on the data sheet.

2.3.6. Apply primary antibody to each section and incubate overnight in the humidified chamber (4C).

2.3.7. Wash slides three times with TBST (3 min each on a shaker).

2.3.8. Apply to each section secondary HRP-conjugated anti-rabbit antibody diluted in the blocking solution per manufacturers recommendation; incubate for 1 hour at room temperature.

2.3.9. Wash slides three times with TBST (3 min each on a shaker).

2.3.10. Add freshly prepared DAB substrate to the sections.

2.3.11. Incubate tissue sections with the substrate at room temperature until suitable staining develops (generally 2 to 5 min).

2.3.12. Rinse sections with water.

2.3.13. Counterstain with Hematoxylin.

2.3.14. Rinse sections with water.

2.3.15. Dehydrate samples using two rinses with 100% Ethanol (20 dips per rinse) followed by two rinses with Xylene (30 dips per rinse).

2.3.16. Mount coverslips on slides using Permount medium.





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