

# Product Datasheet

## AIF Antibody (4E7) **NBP2-37577**

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 4

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**NBP2-37577**

AIF Antibody (4E7)

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4E7
<b>Preservative</b>	0.03% Sodium Azide
<b>Isotype</b>	IgG2b
<b>Purity</b>	Unpurified
<b>Buffer</b>	Ascites
<b>Target Molecular Weight</b>	67 kDa

**Product Description**

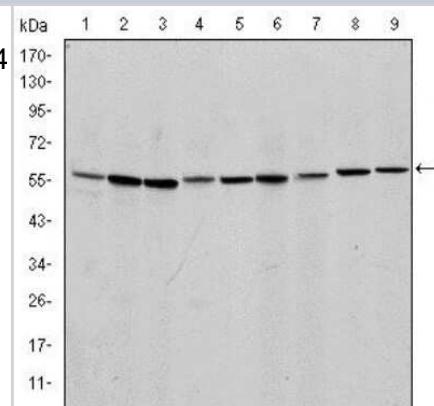
<b>Description</b>	Novus Biologicals Mouse AIF Antibody (4E7) (NBP2-37577) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-AIF Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	9131
<b>Gene Symbol</b>	AIFM1
<b>Species</b>	Human, Mouse, Rat, Monkey, Primate
<b>Reactivity Notes</b>	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
<b>Immunogen</b>	Purified recombinant fragment of human AIF expressed in E. Coli.

**Product Application Details**

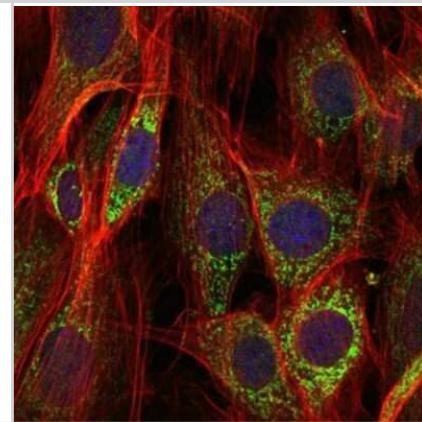
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500 - 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:200 - 1:1000, Immunohistochemistry-Paraffin 1:200 - 1:1000

## Images

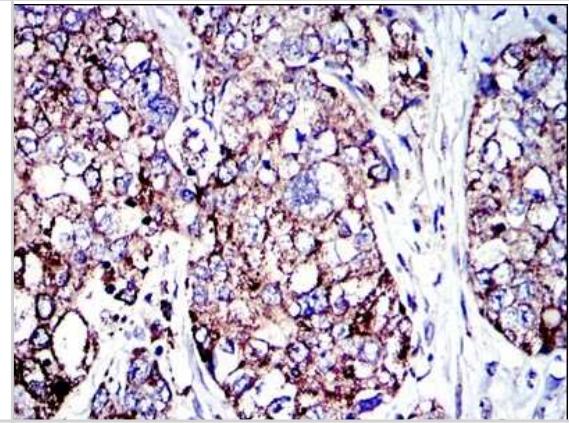
Western Blot: AIF Antibody (4E7) [NBP2-37577] - Analysis using AIF mouse mAb against NIH/3T3 (1), Jurkat (2), Hela (3), HepG2 (4), MOLT4 (5), C6 (6), RAJI (7), Cos7 (8) and PC-12 (9) cell lysate.



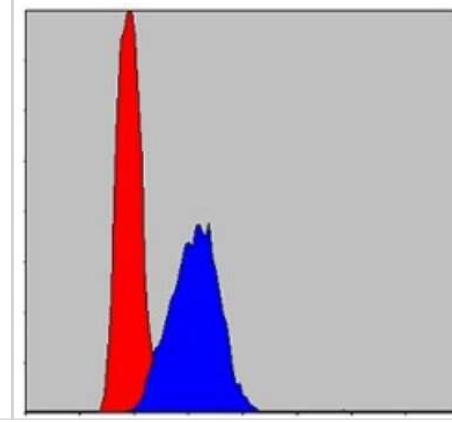
Immunocytochemistry/Immunofluorescence: AIF Antibody (4E7) [NBP2-37577] - Analysis of NIH/3T3 cells using AIF mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



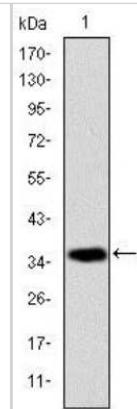
Immunohistochemistry-Paraffin: AIF Antibody (4E7) [NBP2-37577] - Analysis of human lung cancer tissues using AIF mouse mAb with DAB staining.



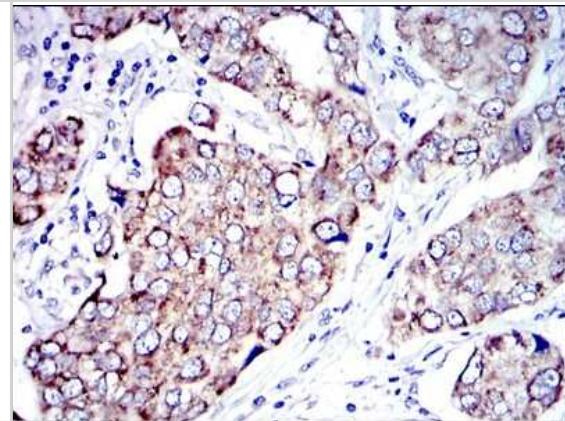
Flow Cytometry: AIF Antibody (4E7) [NBP2-37577] - Analysis of HepG2 cells using AIF mouse mAb (blue) and negative control (red).



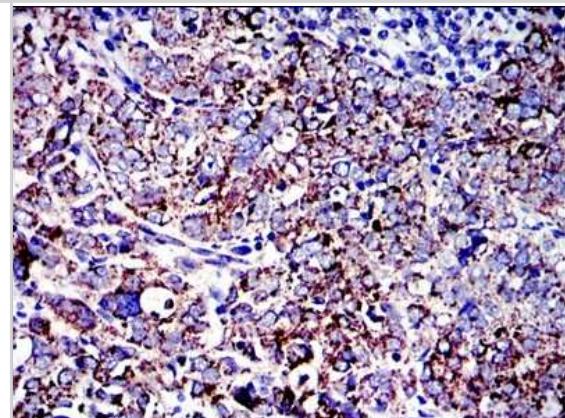
Western Blot: AIF Antibody (4E7) [NBP2-37577] - Analysis using AIF mAb against human AIF (AA: 1-261) recombinant protein. (Expected MW is 35.6 kDa)



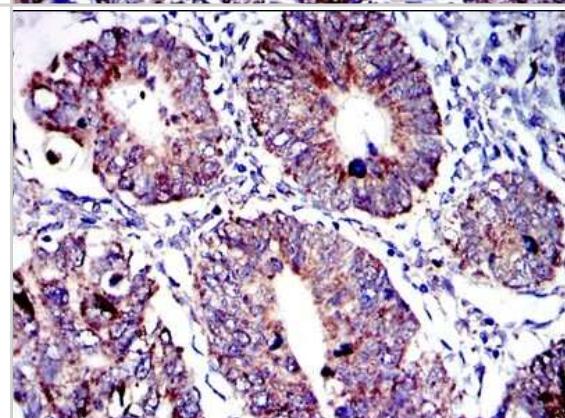
Immunohistochemistry-Paraffin: AIF Antibody (4E7) [NBP2-37577] - Analysis of human breast cancer tissues using AIF mouse mAb with DAB staining.



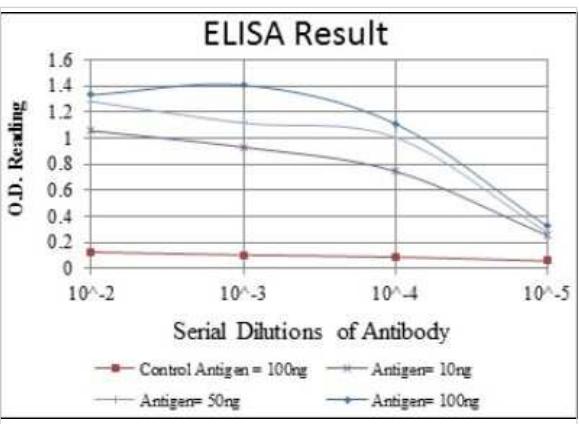
Immunohistochemistry-Paraffin: AIF Antibody (4E7) [NBP2-37577] - Analysis of human cervical cancer tissues using AIF mouse mAb with DAB staining.



Immunohistochemistry-Paraffin: AIF Antibody (4E7) [NBP2-37577] - Analysis of human rectum cancer tissues using AIF mouse mAb with DAB staining.



ELISA: AIF Antibody (4E7) [NBP2-37577] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



## Publications

Rudalska R, Harbig J, Snaebjornsson M et al. LXR alpha activation and Raf inhibition trigger lethal lipotoxicity in liver cancer Nature Cancer 2021-02-01 [PMID: 35122079]

Chen D, Osipyan A, Adriana J et al. Allosteric Inhibitors of Macrophage Migration Inhibitory Factor (MIF) Interfere with Apoptosis-Inducing Factor (AIF) Co-Localization to Prevent Parthanatos Journal of medicinal chemistry 2023-06-23 [PMID: 37352470] (ELISA, Human)

Culjat M, Miloevic NJ Mitochondrial Dysfunction Leads to Cortical Under-Connectivity and Cognitive Impairment Neuron 2019-05-02 [PMID: 31079872]

Jain S, Ahmad Y, Bhargava K. Salivary proteome patterns of individuals exposed to High Altitude. Arch. Oral Biol. 2018-09-07 [PMID: 30219637] (WB, Human)



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## Products Related to NBP2-37577

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP2-51612-0.1mg	Recombinant Human AIF His Protein

## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

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