

Rabbit NFIA Polyclonal Antibody | anti-NFIA antibody

Anti-NFIA Antibody

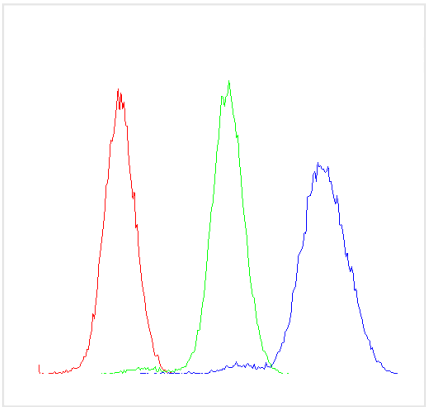
CATALOG # AAA11691	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

NFIA; Polyclonal Antibody; Anti-NFIA Antibody; CTF; NF I/A; NF-I/A; NF1-A; NFI A; NFI L; NFI-A; Q12857; Nuclear factor 1 A-type; nuclear factor I A; anti-NFIA antibody

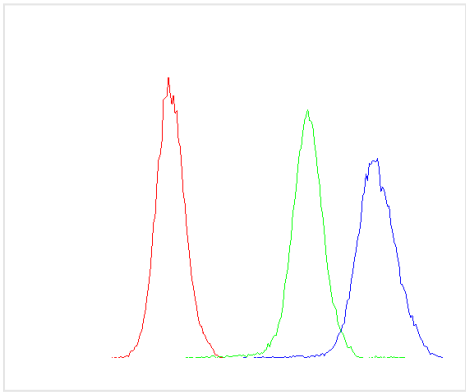
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	509
Applicable Applications for anti-NFIA antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot: 0.1-0.5ug/ml Immunohistochemistry(IHC) Paraffin: 0.5-1ug/ml
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human NFIA (180-224aa AYFVHAADSSQSESPSQPSDADIKDQPENGLGFQDSFVTSG VFS), different from the related mouse sequence by one amino acid, and identical to the related rat sequence.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



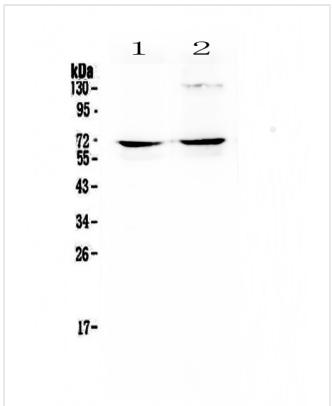
FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of U2OS cells using anti-NFIA antibody (AAA11691).Overlay histogram showing U2OS cells stained with AAA11691 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFIA Antibody (AAA11691,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



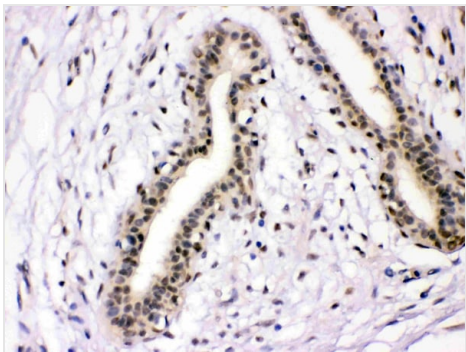
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of K562 cells using anti-NFIA antibody (AAA11691).Overlay histogram showing K562 cells stained with AAA11691 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFIA Antibody (AAA11691,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



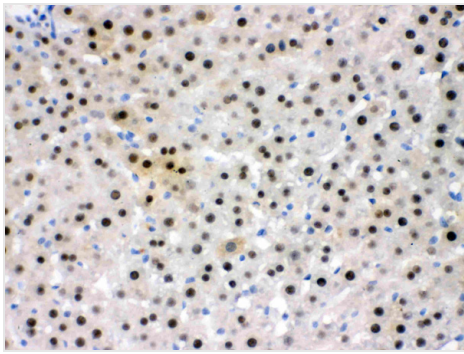
WB (Western Blot)

Figure 5. Western blot analysis of NFIA using anti- NFIA antibody (AAA11691).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: mouse HEPA1-6 whole cell lysates,Lane 2: mouse SP2/0 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- NFIA antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NFIA at approximately 69KD. The expected band size for NFIA is at 56KD



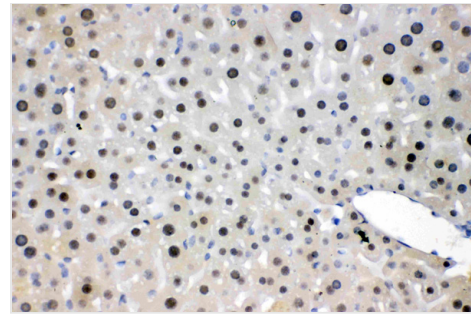
IHC (Immunohistochemistry)

Figure 4. IHC analysis of NFIA using anti- NFIA antibody (AAA11691).NFIA was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- NFIA Antibody (AAA11691) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of NFIA using anti- NFIA antibody (AAA11691).NFIA was detected in paraffin-embedded section of rat liver tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- NFIA Antibody (AAA11691) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of NFIA using anti- NFIA antibody (AAA11691).NFIA was detected in paraffin-embedded section of mouse liver tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- NFIA Antibody (AAA11691) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-NFIA antibody	Rabbit IgG polyclonal antibody for Nuclear factor 1 A-type(NFIA) detection. Background: Nuclear factor 1 A-type is a protein that in humans is encoded by the NFIA gene. Nuclear factor I (NFI) proteins constitute a family of dimericDNA-binding proteins with similar, and possibly identical, DNA-binding specificity. They function as cellular transcription factors and as replication factors for adenovirus DNA replication. Diversity in this protein family is generated by multiple genes, differential splicing, and heterodimerization.
References	1. Leahy P, Crawford DR, Grossman G, et al. (1999). "CREB binding protein coordinates the function of multiple transcription factors including nuclear factor I to regulate phosphoenolpyruvate carboxykinase (GTP) gene transcription." J. Biol. Chem. 274 (13): 8813-22. 2. Qian F, Kruse U, Lichter P, Sippel AE (Dec 1995). "Chromosomal localization of the four genes (NFIA, B, C, and X) for the human transcription factor nuclear factor I by FISH". Genomics 28 (1): 66-73.

NCBI AND UNIPROT INFORMATION

NCBI GI #	197927284
NCBI GeneID	4774
NCBI Accession #	NP_001128145.1
NCBI GenBank Nucleotide #	NM_001134673.3
UniProt Accession #	Q12857; Q8TA97; Q9H3X9; Q9P2A9; B4DRJ3; B4DS53; F5H0R0; F8W8W3
Molecular Weight	60,894 Da
NCBI Official Full Name	nuclear factor 1 A-type isoform 1
NCBI Official Synonym Full Names	nuclear factor I A
NCBI Official Symbol	NFIA
NCBI Official Synonym Symbols	CTF; NF1-A; NFI-A; NFI-L; NF-I/A
NCBI Protein Information	nuclear factor 1 A-type
UniProt Protein Name	Nuclear factor 1 A-type
UniProt Gene Name	NFIA
UniProt Synonym Gene Names	KIAA1439; NF1-A; Nuclear factor 1/A; CTF; NF-I/A; NFI-A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nfia-antibody-western-blot-immunohistochemistry-elisa/11691>