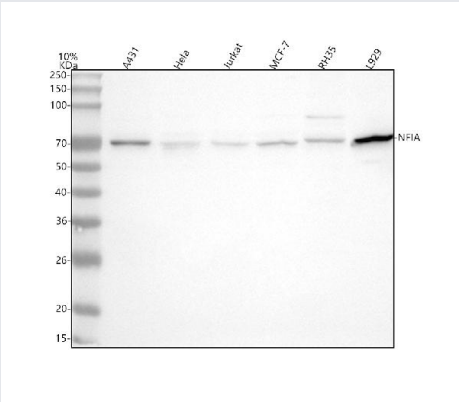
NFIA Antibody – Rabbit Polyclonal

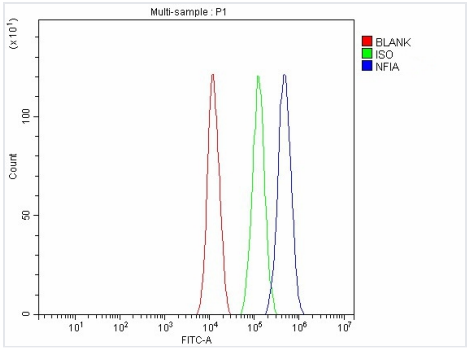
PRODUCT OVERVIEW

Product Name	NFIA, Polyclonal Antibody
Full Product Name	Anti-NFIA Antibody Picoband
Product Gene Name	anti-NFIA antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	509
OMIM	600727
3D Structure	ModBase 3D Structure for Q12857
Immunogen	E coli-derived human NFIA recombinant protein (Position: V172-Q233). Human NFIA shares 100% amino acid (aa) sequence identity with rat NFIA.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Product Categories/Family for anti-NFIA antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-NFIA antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-NFIA antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-NFIA antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-NFIA antibody	1. Campbell, C. G. N., Wang, H., Hunter, G. W. Interstitial microdeletion of chromosome 1p in two siblings. Am. J. Med. Genet. 111: 289-294, 2002.2. das Neves, L., Duchala, C. S., Godinho, F., Haxhiu, M. A., Colmenares, C., Macklin, W. B., Campbell, C. E., Butz, K. G., Gronostajski, R. M. Disruption of the murine nuclear factor I-A gene (Nfia) results in perinatal lethality, hydrocephalus, and agenesis of the corpus callosum. Proc. Nat. Acad. Sci. 96: 11946-11951, 1999. Note: Erratum: Proc. Nat. Acad. Sci. 98: 4276 only, 2001. 3. Deneen, B., Ho, R., Lukaszewicz, A., Hochstim, C. J., Gronostajski, R. M., Anderson, D. J. The transcription factor NFIA controls the onset of gliogenesis in the developing spinal cord. Neuron 52: 953-968, 2006.
Other Notes	Small volumes of anti-NFIA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NFIA purchase	MBS1758405 is an antibody targeting NFIA. Also known as Anti-NFIA Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NFIA antibody

Figure 1. Western blot analysis of NFIA using anti-NFIA antibody (MBS1758405).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 30 ug of sample under reducing conditions.Lane 1: human A431 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: human MCF-7 whole cell lysates,Lane 5: rat RH35 whole cell lysates,Lane 6: mouse L929 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 (#MBS1758405) 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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for NFIA at approximately 70 kDa. The expected band size for NFIA is at 56 kDa.



Flow Cytometry (FC/FACS) of anti-NFIA antibody

Figure 2. Flow Cytometry analysis of JK cells using anti-NFIA antibody (MBS1758405).Overlay histogram showing JK cells stained with MBS1758405 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NFIA Antibody (MBS1758405, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFIA. It may not necessarily be applicable to this product.

NCBI GI #	14194959
NCBI GeneID	4774
NCBI Accession #	Q12857.2
UniProt Primary Accession #	Q12857
UniProt Secondary Accession #	Q8TA97; Q9H3X9; Q9P2A9; B4DRJ3; B4DS53; F5H0R0; F8W8W3
UniProt Related Accession #	Q12857
NCBI Official Full Name	Nuclear factor 1 A-type
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
UniProt Protein Name	Nuclear factor 1 A-type
UniProt Synonym Protein Names	CCAAT-box-binding transcription factor; CTF; Nuclear factor I/A; NF-I/A; NFI-A; TGGCA-binding protein
Protein Family	Nuclear factor
UniProt Gene Name	NFIA
UniProt Synonym Gene Names	KIAA1439; NF1-A; Nuclear factor 1/A; CTF; NF-I/A; NFI-A
UniProt Entry Name	NFIA_HUMAN
NCBI Protein Information	nuclear factor 1 A-type; TGGCA-binding protein; CCAAT-box-binding transcription factor

NCBI Summary for NFIA	This gene encodes a member of the NF1 (nuclear factor 1) family of transcription factors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]
UniProt Comments for NFIA	NFI-A: Recognizes and binds the palindromic sequence 5'- TTGGCNNNNNGCCAA-3' present in viral and cellular promoters and in the origin of replication of adenovirus type 2. These proteins are individually capable of activating transcription and replication. Belongs to the CTF/NF-I family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 1p31.3-p31.2 Cellular Component: nucleoplasm; nucleus; cell junction Molecular Function: transcription factor binding; transcription factor activity Biological Process: transcription, DNA-dependent; regulation of transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; viral genome replication; DNA replication; response to organic cyclic substance
Research Articles on NFIA	**1.** High nuclear factor IA expression is associated with glioblastomas.
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