

Rabbit NFIX Polyclonal Antibody | anti-NFIX antibody

Anti-NFIX Antibody Picoband

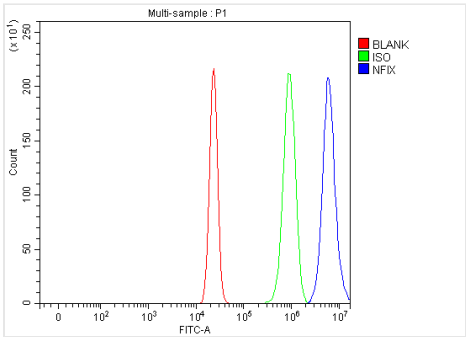
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127216	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NFIX; Polyclonal Antibody; Anti-NFIX Antibody Picoband; Chromodomain-helicase-DNA-binding protein 2; prostaglandin E synthase 3; Prostaglandin E synthase 3; Cytosolic prostaglandin E2 synthase; Cpges; Hsp90 co-chaperone; Progesterone receptor complex p23; Telomerase-binding protein p23; PTGES3; P23; TEBP; anti-NFIX antibody

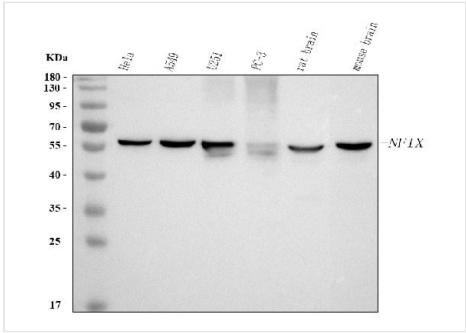
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mainly Expressed in testis. Isoform 3 is expressed predominantly in adult testis, weakly in pancreas, embryonic testis and sperm, and at very low levels in other organs.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NFIX antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NFIX recombinant protein (Position: A246-D410).
Subcellular Localization	Nucleus speckle. PML body. Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Cytosolic prostaglandin synthase that catalyzes the oxidoreduction of prostaglandin endoperoxide H ₂ (PGH ₂) to prostaglandin E ₂ (PGE ₂)(PubMed:10922363). Molecular chaperone that localizes to genomic response elements in a hormone-dependent manner and disrupts receptor-mediated transcriptional activation, by promoting disassembly of transcriptional regulatory complexes (PubMed:11274138, PubMed:12077419). Facilitates HIF alpha proteins hydroxylation via interaction with EGLN1/PHD2, leading to recruit EGLN1/PHD2 to the HSP90 pathway (PubMed:24711448).
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.



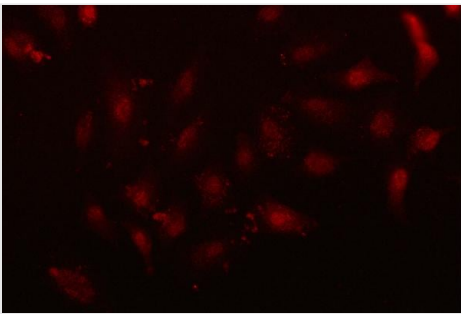
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U20S cells using anti-NFIX antibody (AAA127216).Overlay histogram showing U20S cells stained with AAA127216 (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-NFIX Antibody (AAA127216, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG 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 1. Western blot analysis of NFIX using anti-NFIX antibody (AAA127216).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 Hela whole cell lysates,Lane 2: human A549 whole cell lysates,Lane 3: human U251 whole cell lysates,Lane 4: human PC-3 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: mouse brain tissue 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-NFIX antigen affinity purified polyclonal antibody (#AAA127216) 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 with Tanon 5200 system. A specific band was detected for NFIX at approximately 55 kDa. The expected band size for NFIX is at 55 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of NFIX using anti-NFIX antibody (AAA127216).NFIX was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NFIX Antibody (AAA127216) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-NFIX 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 Categories/Family for anti-NFIX antibody	Primary Antibodies; Signal Transduction
References	1. Adam, M. P., Hennekam, R. C. M., Keppen, L. D., Bull, M. J., Clericuzio, C. L., Burke, L. W., Ormond, K. E., Hoyme, H. E. Marshall-Smith syndrome: natural history and evidence of an osteochondrodysplasia with connective tissue abnormalities. Am. J. Med. Genet. 137A: 117-124, 2005.2. Campbell, C. E., Piper, M., Plachez, C., Yeh, Y.-T., Baizer, J. S., Osinski, J. M., Litwack, E. D., Richards, L. J., Gronostajski, R. M. The transcription factor Nfix is essential for normal brain development. BMC Dev. Biol. 8: 52, 2008. Note: Electronic Article. 3. Darnedde, G., Pendeville, P., Veyckemans, F., Verellen, G., Gillerot, Y. Anaesthetic management of a child with Marshall-Smith syndrome. Can. J. Anaesth. 45: 660-663, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	402534520
NCBI GeneID	4784
NCBI Accession #	NP_001257972
NCBI GenBank Nucleotide #	NM_002501
UniProt Accession #	Q14938; O60413; Q0VG09; Q12859; Q13050; Q13052; Q5U094; Q9UPH1; Q9Y6R8; B4DM25
Molecular Weight	47,911 Da
NCBI Official Full Name	nuclear factor 1 X-type isoform 1
NCBI Official Synonym Full Names	nuclear factor I/X (CCAAT-binding transcription factor)
NCBI Official Symbol	NFIX
NCBI Official Synonym Symbols	NF1A; MRSHSS; SOTOS2
NCBI Protein Information	nuclear factor 1 X-type; CCAAT-box-binding transcription factor; CTF; NF-I/X; NF1-X; TGGCA-binding protein; nuclear factor 1/X
UniProt Protein Name	Nuclear factor 1 X-type
UniProt Gene Name	NFIX
UniProt Synonym Gene Names	NF1-X; Nuclear factor 1/X; CTF; NF-I/X; NFI-X
UniProt Entry Name	NFIX_HUMAN

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/nfix-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127216>