

Rabbit NLRX1 Polyclonal Antibody | anti-NLRX1 antibody

Anti-NLRX1 Antibody Picoband

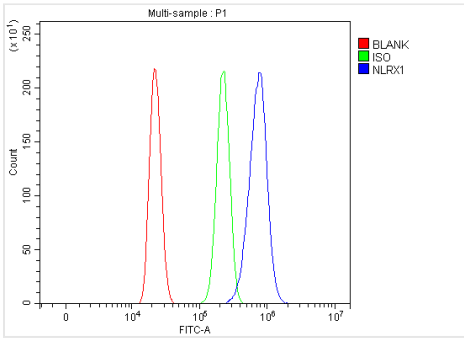
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19829	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

NLRX1; Polyclonal Antibody; Anti-NLRX1 Antibody Picoband; Transmembrane protein 107; TMEM107; DC20; UNQ638/PRO1268; anti-NLRX1 antibody

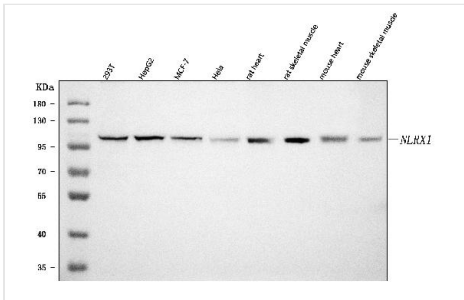
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.
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-NLRX1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human NLRX1 recombinant protein (Position: R98-E874).
Subcellular Localization	Membrane, Multi-pass membrane protein
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	Plays a role in cilia formation and embryonic patterning. Requires for normal Sonic hedgehog (Shh) signaling in the neural tube and acts in combination with GLI2 and GLI3 to pattern ventral and intermediate neuronal cell types (By similarity).
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 (Flow Cytometry)

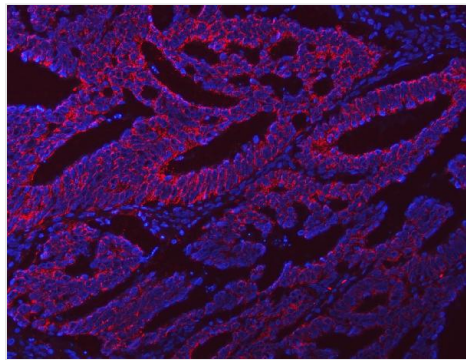
Figure 7. Flow Cytometry analysis of HL-60 cells using anti-NLRX1 antibody (AAA19829). Overlay histogram showing HL-60 cells stained with AAA19829 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NLRX1 Antibody (AAA19829, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 5. IF analysis of NLRX1 using anti-NLRX1 antibody (AAA19829).NLRX1 was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NLRX1 Antibody (AAA19829) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NLRX1 Antibody (AAA19829) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NLRX1 Antibody (AAA19829) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NLRX1 Antibody (AAA19829) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution).

(Lane 2: human HepG2 whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human Hela whole cell lysates,Lane 5: rat heart tissue lysates,Lane 6: rat skeletal muscle tissue lysates,Lane 7: mouse heart tissue lysates,Lane 8: mouse skeletal muscle 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-NLRX1 antigen affinity purified polyclonal antibody (#AAA19829) 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 NLRX1 at approximately 108 kDa. The expected band size for NLRX1 is at 108 kDa.



IF (Immunofluorescence)

Figure 6. IF analysis of NLRX1 using anti-NLRX1 antibody (AAA19829).NLRX1 was detected in a paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-NLRX1 Antibody (AAA19829) 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. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-NLRX1 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-NLRX1 antibody	Primary Antibodies ; Cell Biology
References	1. Guo, H., Konig, R., Deng, M., Riess, M., Mo, J., Zhang, L., Petrucelli, A., Yoh, S. M., Barefoot, B., Samo, M., Sempowski, G. D., Zhang, A., and 14 others. NLRX1 sequesters STING to negatively regulate the interferon response, thereby facilitating the replication of HIV-1 and DNA viruses. <i>Cell Host Microbe</i> 19: 515-528, 2016. 2. Inohara, N., Chamaillard, M., McDonald, C., Nunez, G. NOD-LRR proteins: role in host-microbial interactions and inflammatory disease. <i>Ann. Rev. Biochem.</i> 74: 355-383, 2005. 3. Leber, A., Hontecillas, R., Tubau-Juni, N., Zoccoli-Rodriguez, V., Hulver, M., McMillan, R., Eden, K., Allen, I. C., Bassaganya-Riera, J. NLRX1 regulates effector and metabolic functions of CD4+ T cells. <i>J. Immun.</i> 198: 2260-2268, 2017.

NCBI AND UNIPROT INFORMATION

NCBI GI #	74759406
NCBI GeneID	79671
UniProt Accession #	Q86UT6 ; Q7RTR3 ; Q96D51 ; Q9H724 ; A8K6Q1 ; B3KPK2 ; B3KTA2
Molecular Weight	975
NCBI Official Full Name	NLR family member X1
NCBI Official Synonym Full Names	NLR family member X1
NCBI Official Symbol	NLRX1
NCBI Official Synonym Symbols	NOD5; NOD9; NOD26; DLNB26; CLR11.3
NCBI Protein Information	NLR family member X1; NLR family, X1; NOD-like receptor X1; caterpillar protein 11.3; nucleotide-binding oligomerization domain protein 5; nucleotide-binding oligomerization domain protein 9; nucleotide-binding oligomerization domain protein 26; nucleotid
UniProt Protein Name	NLR family member X1
UniProt Gene Name	NLRX1
UniProt Synonym Gene Names	NOD26; NOD5; NOD9; CLR11.3
UniProt Entry Name	NLRX1_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/nlrx1-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19829>