

Rabbit anti-Human NLRP7 Polyclonal Antibody | anti-NLRP7 antibody

Anti-NLRP7 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19590	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

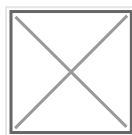
PRODUCT SYNONYMS

NLRP7; Polyclonal Antibody; Anti-NLRP7 Antibody Picoband; anti-NLRP7 antibody

PRODUCT SPECIFICATIONS

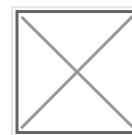
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-NLRP7 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.25-0.5 ug/ml, Human IHC-P: 2-5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human NLRP7 recombinant protein (Position: M1-L169).
Preparation and Storage	Store 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.

IMAGES



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of Daudi cells using anti-NLRP7 antibody (AAA19590). Overlay histogram showing Daudi cells stained with AAA19590 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NLRP7 Antibody (AAA19590, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



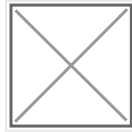
IHC (Immunohistochemistry)

Figure 5. IHC analysis of NLRP7 using anti-NLRP7 antibody (AAA19590). NLRP7 was detected in a paraffin-embedded section of human tonsil 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 2 ug/ml rabbit anti-NLRP7 Antibody (AAA19590) 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 with DAB as the chromogen.



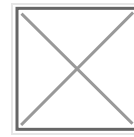
IHC (Immunohistochemistry)

Figure 4. IHC analysis of NLRP7 using anti-NLRP7 antibody (AAA19590). NLRP7 was detected in a paraffin-embedded section of human lymphoma 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 2 ug/ml rabbit anti-NLRP7 Antibody (AAA19590) 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 with DAB as the chromogen.



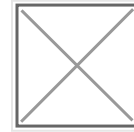
IHC (Immunohistochemistry)

Figure 2. IHC analysis of NLRP7 using anti-NLRP7 antibody (AAA19590). NLRP7 was detected in a paraffin-embedded section of human liver 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 2 ug/ml rabbit anti-NLRP7 Antibody (AAA19590) 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 with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of NLRP7 using anti-NLRP7 antibody (AAA19590). NLRP7 was detected in a paraffin-embedded section of human liver 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 2 ug/ml rabbit anti-NLRP7 Antibody (AAA19590) 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 with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NLRP7 using anti-NLRP7 antibody (AAA19590). 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 RT4 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-NLRP7 antigen affinity purified polyclonal antibody (#AAA19590) at 0.5 ug/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 NLRP7 at approximately 112 kDa. The expected band size for NLRP7 is at 112 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NLRP7 antibody	NACHT, LRR and PYD domains-containing protein 7 is a protein that in humans is encoded by the NLRP7 gene. This gene encodes a member of the NACHT, leucine rich repeat, and PYD containing (NLRP) protein family. It has an N-terminal pyrin domain, followed by a NACHT domain, a NACHT-associated domain (NAD), and a C-terminal leucine-rich repeat (LRR) region. NLRP proteins are implicated in the activation of proinflammatory caspases through multiprotein complexes called inflammasomes. This gene may act as a feedback regulator of caspase-1-dependent interleukin 1-beta secretion. Alternative splicing results in multiple transcript variants encoding different isoforms.
Product Categories/Family for anti-NLRP7 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	46049100
NCBI GeneID	199713
NCBI Accession #	NP_631915
NCBI GenBank Nucleotide #	NM_139176.3
UniProt Accession #	Q8WX94; Q32MH8; Q7RTR1; E9PE16
Molecular Weight	118,303 Da
NCBI Official Full Name	NACHT, LRR and PYD domains-containing protein 7 isoform 1
NCBI Official Synonym Full Names	NLR family, pyrin domain containing 7
NCBI Official Symbol	NLRP7
NCBI Official Synonym Symbols	HYDM; PAN7; NALP7; NOD12; PYPAF3; CLR19.4

NCBI Protein Information	NACHT, LRR and PYD domains-containing protein 7; PYRIN-containing Apaf1-like protein 3; NACHT, LRR and PYD containing protein 7; NACHT, leucine rich repeat and PYD containing 7; nucleotide-binding oligomerization domain protein 12; nucleotide-binding olig
UniProt Protein Name	NACHT, LRR and PYD domains-containing protein 7
UniProt Gene Name	NLRP7
UniProt Synonym Gene Names	NALP7; NOD12; PYPAF3
UniProt Entry Name	NALP7_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/nlrp7-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/19590>