

Rabbit anti-Human NLRP2 Polyclonal Antibody | anti-NLRP2 antibody

Anti-NLRP2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127253	Rabbit	Human	Western Blot, Immunofluorescence, Immunocytochemistry, Immunoprecipitation, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

NLRP2; Polyclonal Antibody; Anti-NLRP2 Antibody Picoband; anti-NLRP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
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-NLRP2 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human NLRP2 recombinant protein (Position: H80-D1044).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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.

IMAGES



IP (Immunoprecipitation)

Figure 4. Immunoprecipitating NLRP2 in A431 whole cell lysate .Western blot analysis of NLRP2 using anti-NLRP2 antibody (AAA127253).Lane 1: A431 whole cell lysates (30ug)Lane 2: Rabbit control IgG instead of anti-NLRP2 antibody in A431 whole cell lysate.Lane 3: anti-NLRP2 antibody (2ug) + A431 whole cell lysate (500ug)After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NLRP2 antigen affinity purified polyclonal antibody (AAA127253) at a dilution of 0.5ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using ECL Plus Western Blotting Substrate . A specific band was detected for NLRP2 at approximately 121 kDa. The expected band size for NLRP2 is at 121 kDa.



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HEL cells using anti-NLRP2 antibody (AAA127253).Overlay histogram showing HEL cells stained with AAA127253 (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-NLRP2 Antibody (AAA127253, 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 2. IF analysis of NLRP2 using anti-NLRP2 antibody (AAA127253). NLRP2 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-NLRP2 Antibody (AAA127253) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG 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.



WB (Western Blot)

Figure 1. Western blot analysis of NLRP2 using anti-NLRP2 antibody (AAA127253). 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 A549 whole cell lysates, Lane 2: human A431 whole cell lysates, Lane 3: human Caco-2 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-NLRP2 antigen affinity purified polyclonal antibody (#AAA127253) 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 NLRP2 at approximately 121 kDa. The expected band size for NLRP2 is at 121 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NLRP2 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-NLRP2 antibody	Primary Antibodies
References	1. Agostini, L., Martinon, F., Burns, K., McDermott, M. F., Hawkins, P. N., Tschopp, J. NALP3 forms an IL-1-beta-processing inflammasome with increased activity in Muckle-Wells autoinflammatory disorder. Immunity 20: 319-325, 2004.2. Bruey, J. M., Bruey-Sedano, N., Newman, R., Chandler, S., Stehlik, C., Reed, J. C. PAN1/NALP2/PYPAF2, an inducible inflammatory mediator that regulates NF-kappa-B and caspase-1 activation in macrophages. J. Biol. Chem. 279: 51897-51907, 2004.3. Kuchmiy, A. A., D'Hont, J., Hochepped, T., Lamkanfi, M. NLRP2 controls age-associated maternal fertility. J. Exp. Med. 213: 2851-2860, 2016.

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923473
NCBI GeneID	55655
NCBI Accession #	NP_060322
NCBI GenBank Nucleotide #	NM_017852.3
UniProt Accession #	Q9NX02; Q53FL5; Q59G09; Q8IXT0; Q9BVN5; Q9H6G6; Q9HAV9; Q9NWK3; B4DZL7; I3L0G4
Molecular Weight	117,883 Da
NCBI Official Full Name	NACHT, LRR and PYD domains-containing protein 2 isoform 1
NCBI Official Synonym Full Names	NLR family, pyrin domain containing 2
NCBI Official Symbol	NLRP2
NCBI Official Synonym Symbols	NBS1; PAN1; NALP2; PYPAF2; CLR19.9
NCBI Protein Information	NACHT, LRR and PYD domains-containing protein 2; nucleotide-binding site protein 1; PYRIN-containing APAF1-like protein 2; NACHT, LRR and PYD containing protein 2; NACHT, leucine rich repeat and PYD containing 2; PYRIN domain and NACHT domain-containing p
UniProt Protein Name	NACHT, LRR and PYD domains-containing protein 2
UniProt Gene Name	NLRP2
UniProt Synonym Gene Names	NALP2; NBS1; PAN1; PYPAF2

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nlrp2-antibody-western-blot-immunofluorescence-immunocytochemistry-immunoprecipitation-flow-cytometry-elisa/127253>