

## Rabbit anti-Human NLRP3 Antibody | anti-NLRP3 antibody

NLRP3 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                  |
|-----------|--------|------------|---------------------------------------------------------------|
| AAA267947 | Rabbit | Human      | ELISA, Immunofluorescence, Immunohistochemistry, Western Blot |

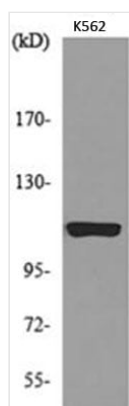
### PRODUCT SYNONYMS

NLRP3; NLRP3 Antibody; FCU; MWS; FCAS; Cias1; Mmig1; NALP3; Pypaf1; Ail/AVP; AGTAVPRL; anti-NLRP3 antibody

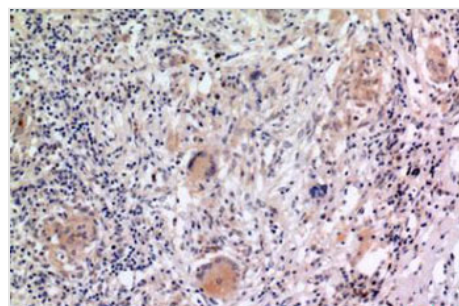
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                   |
| Reactivity                                      | Human                                                                                                                    |
| Specificity                                     | NLRP3 Polyclonal Antibody detects endogenous levels of NLRP3 protein                                                     |
| Purity/Purification                             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.    |
| Form/Format                                     | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                  |
| Sequence Length                                 | 1036                                                                                                                     |
| Applicable Applications for anti-NLRP3 antibody | ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                            |
| Immunogen                                       | The antiserum was produced against synthesized peptide derived from the Internal region of human NLRP3. AA range:511-560 |
| Subcellular Location                            | Extracellular region, nucleus, cytoplasm, endoplasmic reticulum, cytosol, NLRP3 inflammasome complex.                    |
| Expression                                      | Brain, Umbilical cord blood.                                                                                             |
| Preparation and Storage                         | Store at -20 degree C for 1 year                                                                                         |

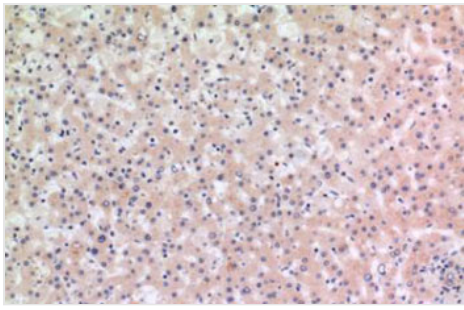
### IMAGES


**WB (Western Blot)**

Western blot analysis of lysate from K562 cells, using NLRP3 Antibody.

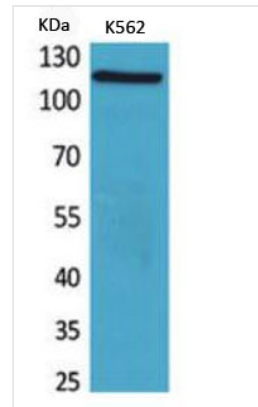

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human-lung, NLRP3 antibody was diluted at 1:100.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human-liver, NLRP3 antibody was diluted at 1:100.



#### WB (Western Blot)

Western Blot analysis of K562 cells using NLRP3 Polyclonal Antibody. Secondary antibody was diluted at 1:20000.

## ADDITIONAL INFORMATION

### Related Product Information for anti-NLRP3 antibody

#### Background

NLR family pyrin domain containing 3 (NLRP3) Homo sapiens This gene encodes a pyrin-like protein containing a pyrin domain, a nucleotide-binding site (NBS) domain, and a leucine-rich repeat (LRR) motif. This protein interacts with the apoptosis-associated speck-like protein PYCARD/ASC, which contains a caspase recruitment domain, and is a member of the NALP3 inflammasome complex. This complex functions as an upstream activator of NF-kappaB signaling, and it plays a role in the regulation of inflammation, the immune response, and apoptosis. Mutations in this gene are associated with familial cold autoinflammatory syndrome (FCAS), Muckle-Wells syndrome (MWS), chronic infantile neurological cutaneous and articular (CINCA) syndrome, and neonatal-onset multisystem inflammatory disease (NOMID). Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene.

#### Function:

Disease: Defects in NLRP3 are a cause of Muckle-Wells syndrome (MWS) [MIM:191900]; also known as urticaria-deafness-amyloidosis syndrome. MWS is a hereditary periodic fever syndrome characterized by fever, chronic recurrent urticaria, arthralgias, progressive sensorineural deafness, and reactive renal amyloidosis. The disease may be severe if generalized amyloidosis occurs. Disease: Defects in NLRP3 are the cause of chronic infantile neurologic cutaneous and articular syndrome (CINCA) [MIM:607115]; also known as 'neonatal onset multisystem inflammatory disease,' or NOMID, a rare congenital inflammatory disorder characterized by a triad of neonatal onset of cutaneous symptoms, chronic meningitis, and joint manifestations with recurrent fever and inflammation. Disease: Defects in NLRP3 are the cause of familial cold autoinflammatory syndrome type 1 (FCAS1) [MIM:120100].

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------|
| NCBI GI #                        | 119395764                                                                                     |
| NCBI GeneID                      | 114548                                                                                        |
| NCBI Accession #                 | NP_001073289.1                                                                                |
| NCBI GenBank Nucleotide #        | NM_001079821.2                                                                                |
| UniProt Accession #              | Q96P20; O75434; Q17RS2; Q59H68; Q5JQS8; Q5JQS9; A0A024R5Q0; B2RC97; B7ZKS9; B7ZKT2; B7ZKT3    |
| Molecular Weight                 | Molecular Weight: 113.96kd<br>Observed Band: 115 kd                                           |
| NCBI Official Full Name          | NACHT, LRR and PYD domains-containing protein 3 isoform a                                     |
| NCBI Official Synonym Full Names | NLR family pyrin domain containing 3                                                          |
| NCBI Official Symbol             | NLRP3                                                                                         |
| NCBI Official Synonym Symbols    | ALI; AVP; FCU; MWS; FCAS; KEFH; CIAS1; FCAS1; NALP3; C1orf7; CLR1.1; DFNA34; PYPAF1; AGTAVPRL |
| NCBI Protein Information         | NACHT, LRR and PYD domains-containing protein 3                                               |

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| UniProt Protein Name       | NACHT, LRR and PYD domains-containing protein 3 |
| UniProt Gene Name          | <b>NLRP3</b>                                    |
| UniProt Synonym Gene Names | C1orf7; CIAS1; NALP3; PYPAF1; CLR1.1            |

**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://www.aaabiotech.com/rabbit-human-antibody/nlrp3/267947>