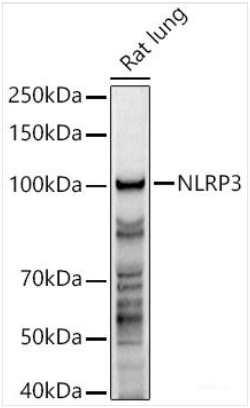
NLRP3 Antibody – Rabbit Polyclonal

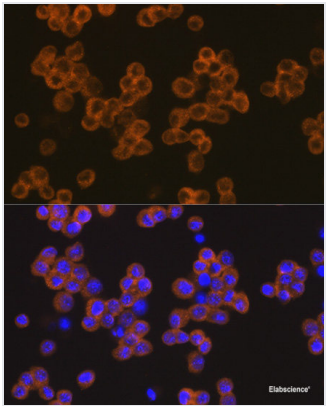
PRODUCT OVERVIEW

Product Name	NLRP3, Polyclonal Antibody
Full Product Name	NLRP3 Polyclonal Antibody
Product Gene Name	anti-NLRP3 antibody
Product Synonym Names	NLRP3; AGTAVPRL; AII; AVP; C1orf7; CIAS1; CLR1.1; FCAS; FCAS1; FCU; MWS; NALP3; PYPAF1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Storage: -20 degree C/One year. Avoid freeze/thaw cycles.
Molecular Weight	115,968 Da
OMIM	gene 607115
3D Structure	ModBase 3D Structure for Q96P20
Immunogen	Recombinant fusion protein of human NLRP3
Research Area	Cancer, Cell Biology, Cardiovascular, Immunology, Signal Transduction
Product Categories/Family for anti-NLRP3 antibody	Antibodies; Primary Antibodies; Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NLRP3 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-NLRP3 antibody	WB: 1:200-1:1000 IF: 1:20-1:200
Related Product Information for anti-NLRP3 antibody	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 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. Alternative 5' UTR structures areuggested by available data; however, insufficient evidence is available to determine if all of the represented 5' UTR splice patterns are biologically valid.
Other Notes	Small volumes of anti-NLRP3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

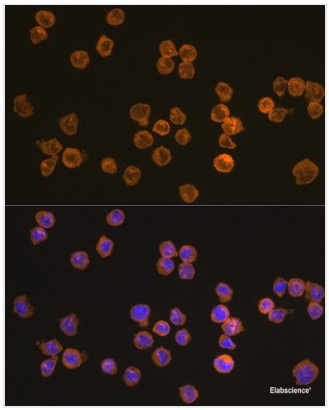
Searchable Terms for NLRP3 purchase	MBS2575803 is an antibody targeting NLRP3. Also known as NLRP3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NLRP3 antibody
Western blot analysis of extracts of Rat lung using NLRP3 Polyclonal Antibody at 1:1000 dilution.



Immunofluorescence (IF) of anti-NLRP3 antibody
Immunofluorescence analysis of Raw264.7 cells using NLRP3 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence (IF) of anti-NLRP3 antibody
Immunofluorescence analysis of THP-1 cells using NLRP3 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NLRP3. It may not necessarily be applicable to this product.

NCBI GI #	34878690
NCBI GeneID	114548
NCBI Accession #	NP_899632
UniProt Primary Accession #	Q96P20
UniProt Secondary Accession #	O75434; Q17RS2; Q59H68; Q5JQS8; Q5JQS9; Q6TG35; Q8TCW0; B2RC97; B7ZKS9; B7ZKT2; B7ZKT3
UniProt Related Accession #	Q96P20
GenBank Nucleotide #	NM_183395.2
NCBI Official Full Name	NACHT, LRR and PYD domains-containing protein 3 isoform b
NCBI Official Synonym Full Names	NLR family, pyrin domain containing 3
NCBI Official Symbol	NLRP3
NCBI Official Synonym Symbols	AII; AVP; FCU; MWS; FCAS; CIAS1; FCAS1; NALP3; C1orf7; CLR1.1; PYPAF1; AGTAVPRL
UniProt Protein Name	NACHT, LRR and PYD domains-containing protein 3

UniProt Synonym Protein Names	Angiotensin/vasopressin receptor AII/AVP-like; Caterpiller protein 1.1; CLR1.1; Cold autoinflammatory syndrome 1 protein; Cryopyrin; PYRIN-containing APAF1-like protein 1
Protein Family	NACHT, LRR and PYD domains-containing protein
UniProt Gene Name	NLRP3
UniProt Synonym Gene Names	C1orf7; CIAS1; NALP3; PYPAF1; CLR1.1
UniProt Entry Name	NALP3_HUMAN
NCBI Protein Information	NACHT, LRR and PYD domains-containing protein 3; cryopyrin; caterpiller protein 1.1; PYRIN-containing APAF1-like protein 1; NACHT, LRR and PYD containing protein 3; cold autoinflammatory syndrome 1 protein; NACHT domain-, leucine-rich repeat-, and PYD-con
NCBI Summary for NLRP3	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. Alternative 5' UTR structures are suggested by available data; however, insufficient evidence is available to determine if all of the represented 5' UTR splice patterns are biologically valid. [provided by RefSeq, Oct 2008]
UniProt Comments for NLRP3	NLRP3: May function as an inducer of apoptosis. Interacts selectively with ASC and this complex may function as an upstream activator of NF-kappa-B signaling. Inhibits TNF-alpha induced activation and nuclear translocation of RELA/NF-KB p65. Also inhibits transcriptional activity of RELA. Activates caspase-1 in response to a number of triggers including bacterial or viral infection which leads to processing and release of IL1B and IL18. Defects in NLRP3 are the cause of familial cold autoinflammatory syndrome type 1 (FCAS1); also known as familial cold urticaria. FCAS are rare autosomal dominant systemic inflammatory diseases characterized by episodes of rash, arthralgia, fever and conjunctivitis after generalized exposure to cold. Defects in NLRP3 are a cause of Muckle-Wells syndrome (MWS); 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. Defects in NLRP3 are the cause of chronic infantile neurologic cutaneous and articular syndrome (CINCA); also known as neonatal onset multisystem inflammatory disease (NOMID). CINCA is 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. Belongs to the NLRP family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Inhibitor Chromosomal Location of Human Ortholog: 1q44 Cellular Component: cytoplasm; cytosol Molecular Function: protein binding; peptidoglycan binding; ATP binding Biological Process: caspase activation; apoptosis; negative regulation of acute inflammatory response; positive regulation of caspase activity; interleukin-1 beta production; defense response; negative regulation of NF-kappaB import into nucleus; positive regulation of interleukin-1 beta secretion; signal transduction; protein oligomerization; activation of NF-kappaB transcription factor; negative regulation of interleukin-1 beta secretion; inhibition of NF-kappaB transcription factor; negative regulation of inflammatory response; interleukin-18 production; innate immune response; interleukin-1 secretion; inflammatory response; detection of biotic stimulus; defense response to virus Disease: Cinca Syndrome; Familial Cold Autoinflammatory Syndrome 1; Muckle-wells Syndrome
Research Articles on NLRP3	**1.** Human Mesenchymal stem/stromal cells inhibit NLRP3 inflammasome activation in macrophages.
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