

## NLRP3 Polyclonal Antibody

Catalog No: #29125

Package Size: #29125-1 50ul #29125-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

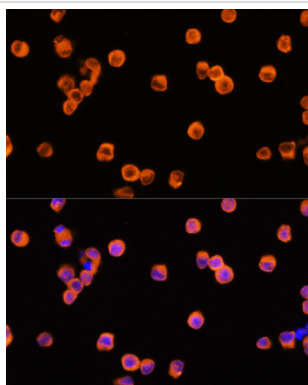
## Description

Product Name	NLRP3 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human NLRP3 (NP_001120934.1).
Other Names	NLRP3;AGTAVPRL;All;AVP;C1orf7;CIAS1;CLR1.1;FCAS;FCAS1;FCU;MWS;NALP3;PYPAF1
Accession No.	GeneID:114548Swiss Prot:Q96P20
Calculated MW	83kDa/105kDa/111kDa/112kDa/115kDa/118kDa
SDS-PAGE MW	118kDa
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 239% glycerol.
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.192.

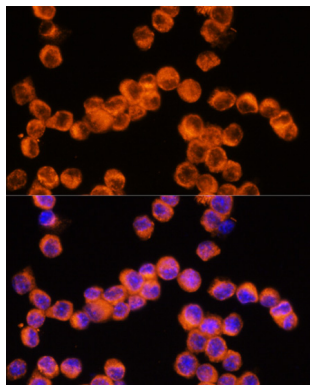
## Application Details

WB□1:1000 - 1:3000IHC□1:50 - 1:200IF□1:50 - 1:200

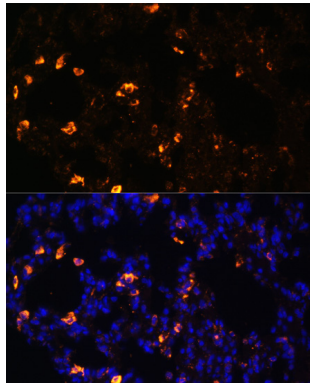
## Images



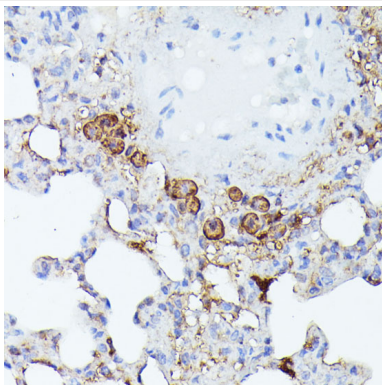
Immunofluorescence analysis of Raw264.7 cells using NLRP3 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



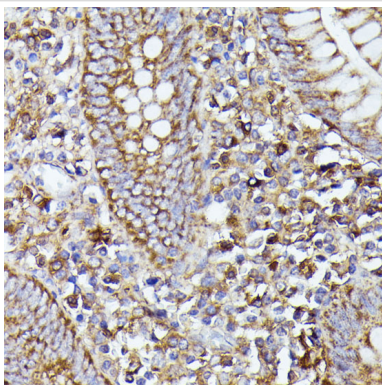
Immunofluorescence analysis of Raw264.7 cells using NLRP3 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



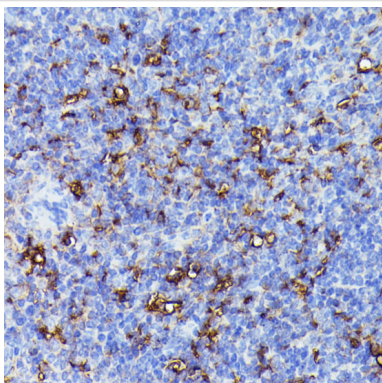
Immunofluorescence analysis of rat lung cells using NLRP3 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



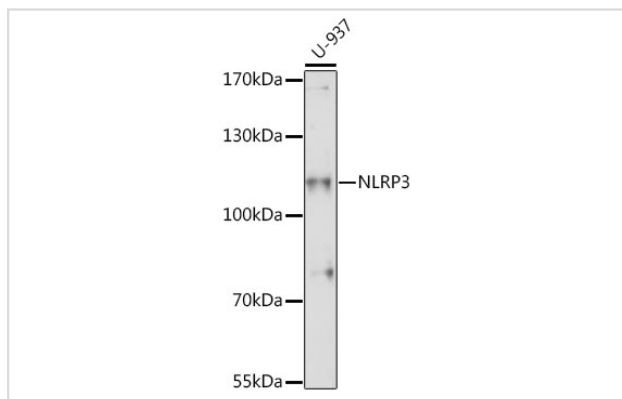
Immunohistochemistry of paraffin-embedded rat lung using NLRP3 antibody at dilution of 1:100 .



Immunohistochemistry of paraffin-embedded human appendix using NLRP3 antibody at dilution of 1:100 .



Immunohistochemistry of paraffin-embedded mouse spleen using NLRP3 antibody at dilution of 1:100 .



Western blot analysis of extracts of U-937 cells, using NLRP3 antibody at 1:1000 dilution.

## Background

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.

## Published Papers

el at., Histone acetylation regulates ORMDL3 expression $\beta$  • mediated NLRP3 inflammasome overexpression during RSV $\beta$  • allergic exacerbation  
micelN J Cell PhysiolOn2023 DecbyQi Cheng 1, Fanghan He et al..PMID: 37877592, , (2023)

[PMID:37877592](#)

el at., Alleviation of Splenic Injury by CB001 after Low-Dose Irradiation Mediated by NLRP3/Caspase-1-BAX/Caspase-3 AxisInRadiat ResOn2023 Dec  
29byChangkun Hu?1?2,?Zebin Liao et al..PMID:?38154483, , (2023)

[PMID:38154483](#)

el at., Dopamine Activates the D1R-Zn<sup>2+</sup> Signaling Pathway to Trigger Inflammatory Response in Primary-Cultured Rat Embryonic Cortical  
NeuronsInCell Mol NeurobiolOn2023 OctbyHui-Chiun Tseng 1, Chien-Yuan Pan et al..PMID: 37289255, , (2023)

[PMID:37289255](#)

el at., The Extracts of *Angelica sinensis* and *Cinnamomum cassia* from Oriental Medicinal Foods Regulate Inflammatory and Autophagic Pathways  
against Neural Injury after Ischemic Stroke. In Oxid Med Cell Longev on 2021 Jun 26 by Cheng Luo, Qi Chen,et al..PMID:34257822, , (2021)

[PMID:34257822](#)

el at., Alpha-lipoic acid alleviates NAFLD and triglyceride accumulation in liver via modulating hepatic NLRP3 inflammasome activation pathway in  
type 2 diabetic rats. In Food Sci Nutr on 2021 Mar 13 by Chih-Yuan Ko, Yangming Martin Lo, et al..PMID: 34026086, , (2021)

[PMID:34026086](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.