

NLRP3 antibody

Catalog No: #38679



Package Size: #38679-1 50ul #38679-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

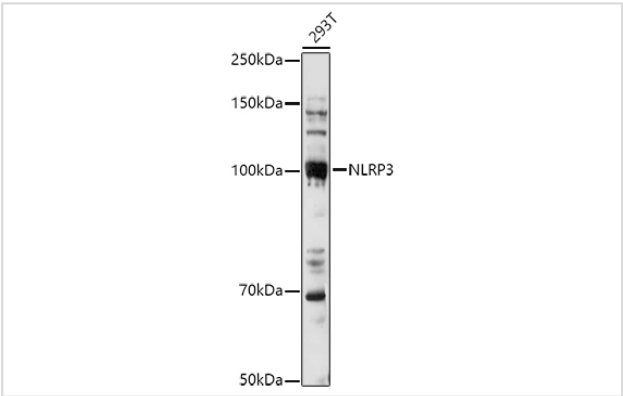
Description

Product Name	NLRP3 antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB
Species Reactivity	Mouse;Rat
Specificity	The antibody detects endogenous level of total NLRP3 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human NLRP3
Conjugates	Unconjugated
Target Name	NLRP3
Other Names	NLRP3;AGTAVPRL;Ail;AVP;C1orf7;CIAS1;CLR1.1;FCAS;FCAS1;FCU;MWS;NALP3;PYPAF1
Accession No.	Uniprot:Q96P20GeneID:114548
SDS-PAGE MW	110KDa
Concentration	1.0mg/ml
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

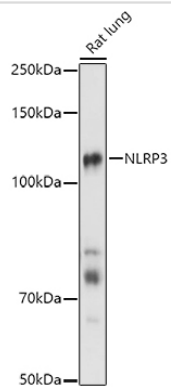
Application Details

- WB 1:500 - 1:2000
- IHC 1:50 - 1:200
- IF 1:50 - 1:200

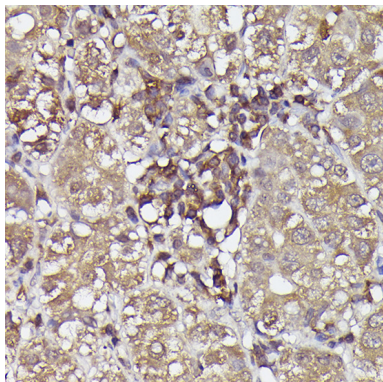
Images



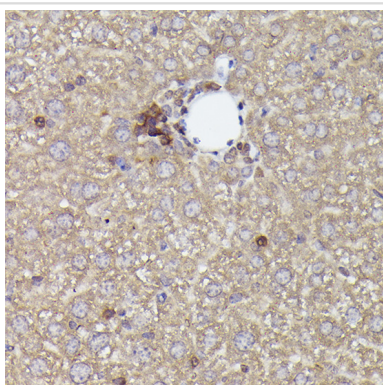
Western blot analysis of extracts of 293T cells, using NLRP3 antibody.



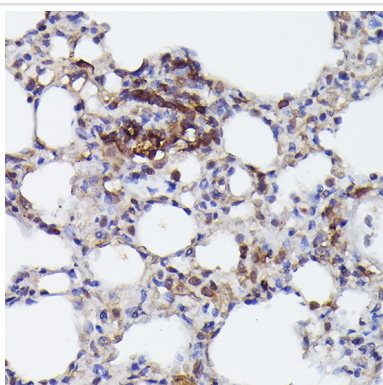
Western blot analysis of extracts of Rat lung, using NLRP3 antibody.



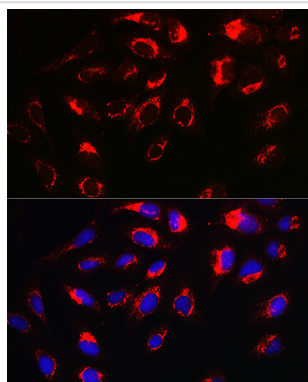
Immunohistochemistry of paraffin-embedded human liver cancer using NLRP3 antibody.



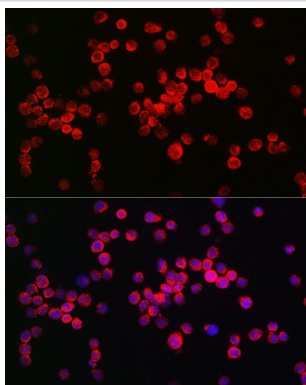
Immunohistochemistry of paraffin-embedded mouse liver using NLRP3 antibody.



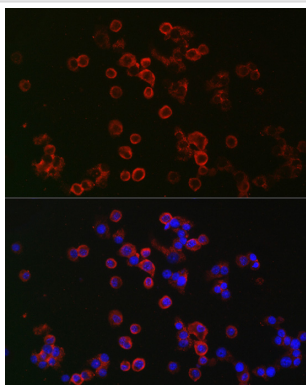
Immunohistochemistry of paraffin-embedded rat lung using NLRP3 antibody.



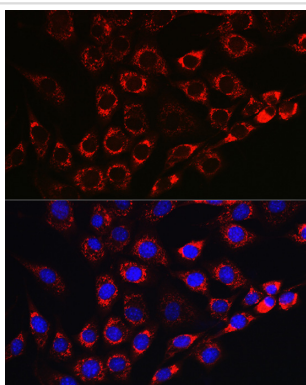
Immunofluorescence analysis of U2OS cells using NLRP3 antibody.



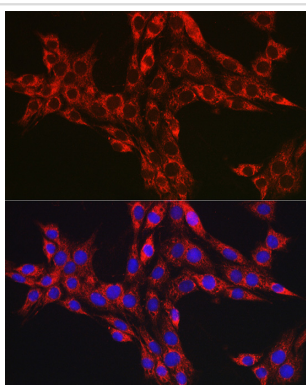
Immunofluorescence analysis of THP-1 cells using NLRP3 antibody.



Immunofluorescence analysis of RAW264.7 cells using NLRP3 antibody.



Immunofluorescence analysis of NIH/3T3 cells using NLRP3 antibody.



Immunofluorescence analysis of PC-12 cells using NLRP3 antibody.

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., 5-(3,4-Difluorophenyl)-3-(6-methylpyridin-3-yl)-1,2,4-oxadiazole (DDO-7263), a novel Nrf2 activator targeting brain tissue, protects against MPTP-Induced subacute Parkinson's disease in mice by inhibiting the NLRP3 Inflammasome and protects PC12 cells against oxidative stress. In *Free Radic Biol Med* on 2019 Jan 5 by Xu LL, Wu YF, et al.. PMID:30615919, , (2019)

[PMID:30615919](#)

el at., Protective effect of ginsenoside Rg5 against kidney injury via inhibition of NLRP3 inflammasome activation and the MAPK signaling pathway in high-fat diet/streptozotocin-induced diabetic mice. In *Pharmacol Res* on 2020 May by Yanyan Zhu, Chenhui Zhu, et al.. PMID: 32156650, , (2020)

[PMID:32156650](#)

Zhu Dan;Zheng Na;Deng Kebin;Li Liangchang et al., Aurantio-obtusin Alleviates Dry Eye Disease by Targeting NF-κB/NLRP3 Signaling in Rodent Models, , (2023)

[PMID:](#)

Qiuli Ming;Ze Li;Jun Tan;Yanwei Li et al., Adenosine A1 receptor agonist alleviates cerebral ischemia/reperfusion injury by inhibiting Nrf2/NLRP3 signalingβ mediated pyroptosis., , (2025)

[PMID:40162050](#)

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