

NLRP3 Rabbit mAb

Catalog No: #49012

Package Size: #49012-1 50ul #49012-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

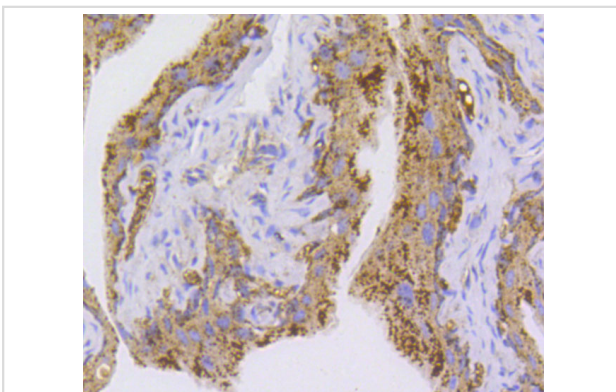
Description

Product Name	NLRP3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC06-23
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	AGTAVPRL antibody AII/AVP antibody Angiotensin/vasopressin receptor AII/AVP like antibody Angiotensin/vasopressin receptor AII/AVP-like antibody C1orf7 antibody Caterpillar protein 1.1 antibody CIAS 1 antibody CIAS1 antibody CLR1.1 antibody Cold autoinflammatory syndrome 1 antibody Cold autoinflammatory syndrome 1 protein antibody Cryopyrin antibody Familial cold autoinflammatory syndrome antibody FCAS antibody FCU antibody LRR and PYD domains-containing protein 3 antibody Muckle-Wells syndrome antibody MWS antibody NACHT antibody NACHT LRR and PYD containing protein 3 antibody NALP 3 antibody NALP3 antibody NALP3_HUMAN antibody NLRP3 antibody PYPAF 1 antibody PYPAF1 antibody PYRIN containing APAF1 like protein 1 antibody PYRIN-containing APAF1-like protein 1 antibody
Accession No.	Swiss-Prot#:Q96P20
Calculated MW	118/85 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

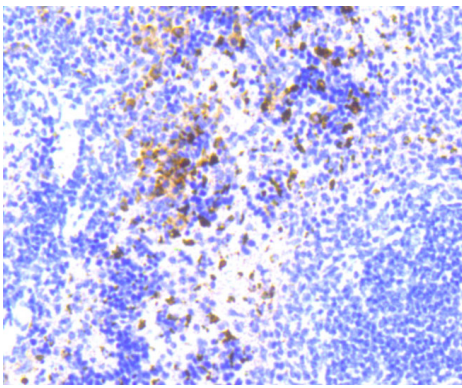
Application Details

WB: 1:1,000 IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

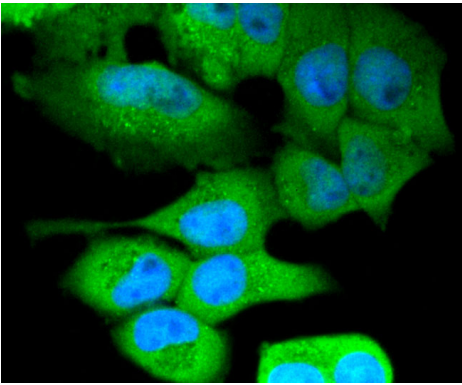
Images



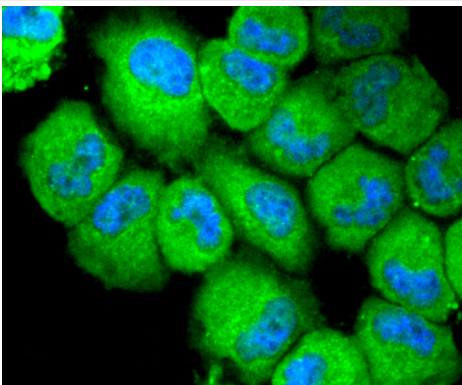
Immunohistochemical analysis of paraffin-embedded mouse bladder tissue using anti-NLRP3 antibody. Counter stained with hematoxylin.



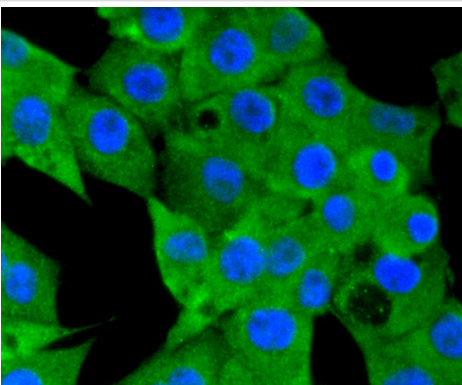
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-NLRP3 antibody. Counter stained with hematoxylin.



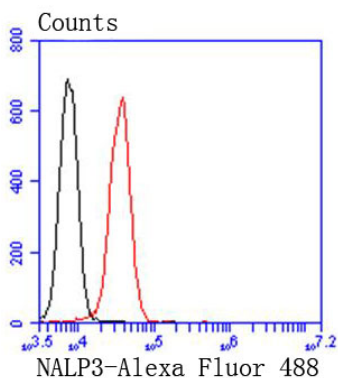
ICC staining NLRP3 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



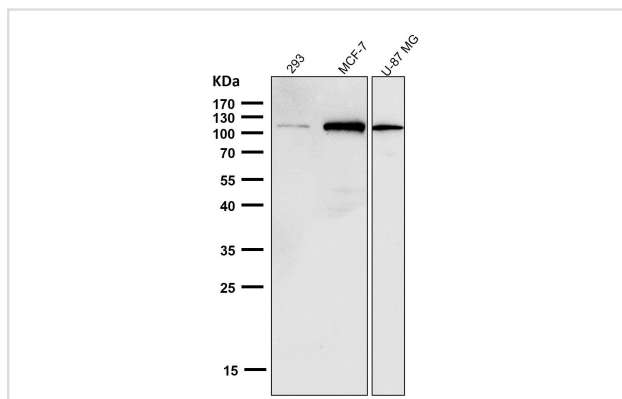
ICC staining NLRP3 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining NLRP3 in PMVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Jurkat cells with NLRP3 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



Western blot analysis of lysates from 293, MCF7 and U-87 MG cells using NLRP3 Rabbit mAb.

Background

Cryopyrin interacts selectively with apoptosis-associated specklike protein containing a CARD domain (ASC). This complex may function as an upstream activator of NF κ B signaling and caspase-1 activation. The complex also inhibits TNF α induced activation and nuclear translocation of RelA/NF κ B p65. Mutations in Cryopyrin and Pypin proteins are responsible for several autoinflammatory disorders in humans, including familial cold autoinflammatory syndrome (FCAS), Muckle-Wells syndrome (MWS) and chronic infantile neurologic cutaneous and articular syndrome (CINCA).

References

1. Qiao J et al. Busulfan and cyclophamide induce liver inflammation through NLRP3 activation in mice after hematopoietic stem cell transplantation. *Sci Rep* 5:17828 (2015).
2. Ataide MA et al. Malaria-induced NLRP12/NLRP3-dependent caspase-1 activation mediates inflammation and hypersensitivity to bacterial superinfection. *PLoS Pathog* 10:e1003885 (2014).

Published Papers

el at., Monotropein alleviates secondary liver injury in chronic colitis by regulating TLR4/NF- κ B signaling and NLRP3 inflammasome. In *Eur J Pharmacol* on 2020 Sep 15 by Yonger Chen, Yingyu Lu, et al.. PMID:32710952, (2020), (2020)

[PMID:32710952](#)

el at., Ginsenoside Rk3 alleviated DSS-induced ulcerative colitis by protecting colon barrier and inhibiting NLRP3 inflammasome pathway. In *Int Immunopharmacol* on 2020 Aug by Mi Tian, Pei Ma, et al.. PMID: 32521491, (2020)

[PMID:32521491](#)

el at., Interventional Effects of the Topical of "Sanse Powder" Essential Oils Nanoemulsion on Knee Osteoarthritis in Rats by Targeting the ERS/TXNIP/NLRP3 Signaling Axis. In *Front Pharmacol* on 2021 Sep 2 by Zixiu Liu, Taiyang Liao, et al., (2021)

[PMID:34539417](#)

el at., Interventional Effects of the Topical of "Sanse Powder" Essential Oils Nanoemulsion on Knee Osteoarthritis in Rats by Targeting the ERS/TXNIP/NLRP3 Signaling Axis. In *Front Pharmacol* on 2021 Sep 2 by Zixiu Liu, Taiyang Liao, et al.. PMID: 34539417, (2021)

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el at., Neuro-immune interaction in CNS injury and disease. In *Immunol Rev* on 2023 Mar 1 by Li, G Ning et al.. PMID:35067941, (2023)

[PMID:35067941](#)

Fan Jiang; Mingjie Xia; Yanan Zhang; Jie Chang; Jiang Cao; Zhongkai Zhang; Zhanyang Qian; Lei Yang et al., Cannabinoid receptor-2 attenuates neuroinflammation by promoting autophagy-mediated degradation of the NLRP3 inflammasome post spinal cord injury, (2022)

[PMID:36238284](#)

Jiaying Liu; Yuanfan Chen; Jing Zhang; Yun Zheng; Yun An; Chenglai Xia; Yonger Chen; Song Huang; Shaozhen Hou; Dong Deng et al., Vitexin alleviates MNNG-induced chronic atrophic gastritis via inhibiting NLRP3 inflammasome., (2025)

[PMID:39716512](#)

Chen Chaohong, Xie Zaoye, Ao Dang, Chen Yinhui, Liu Ling, Li Chengyan et al., Transcription factor EB improves hypoxic pulmonary hypertension in fetal rats by suppressing NLRP3 inflammasome activation via induction of mitophagy, Scientific reports, (2025)

[PMID:40603451](#)

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