NLRP3 Rabbit mAb

Catalog No: #49012

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



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

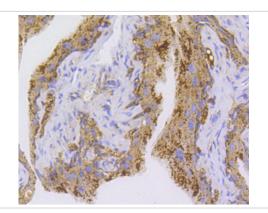
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Product Name	NLRP3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC06-23
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant 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 Caterpiller 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

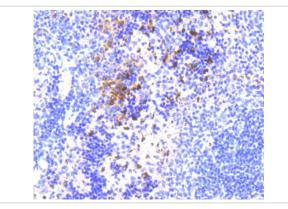
Application Details

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

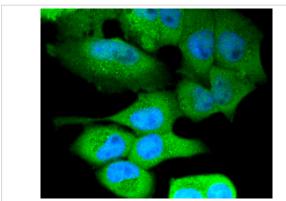
Images



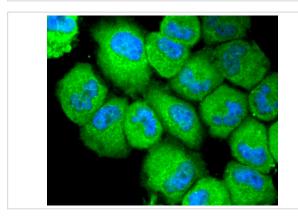
Immunohistochemical analysis of paraffin-embedded mouse bladder tissue using anti- NLRP3 antibody. Counter stained with hematoxylin.



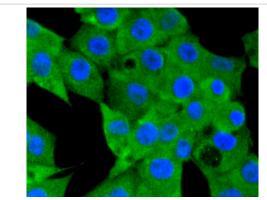
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti- NLRP3 antibody. Counter stained with hematoxylin.



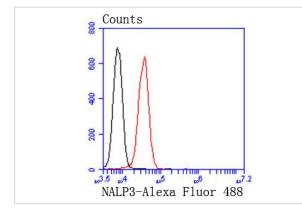
ICC staining NLRP3 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



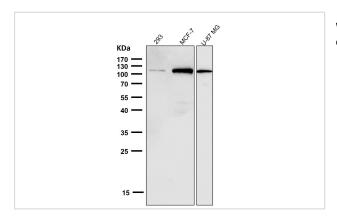
ICC staining NLRP3 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



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 NFkB signaling and caspase-1 activation. The complex also inhibits TNFa induced activation and nuclear translocation of RelA/NFkB p65. Mutations in Cryopyrin and Pyrin 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 cyclosphamide 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-kB 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)

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el at., Interventional Efects 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

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 $el\ at.,\ Neuro-immune\ interaction\ in\ CNS\ injury\ and\ disease InImmunol\ RevOn 2023\ Mar\ 1 by B\ Li,\ G\ Ning\ et\ al..PMID: 35067941,\ ,\ (2023)$

PMID:35067941

Fan Jiang;Mingjie Xia;Yanan Zhang;Jie Chang;Jiang Cao;Zhongkai Zhang;Zhanyang Qian;Lei Yang el at., 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 el at., Vitexin alleviates MNNG-induced chronic atrophic gastritis via inhibiting NLRP3 inflammasome., , (2025)

PMID:39716512

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