

# Product Datasheet

## NLRP3/NALP3 Antibody (SC06-23) NBP2-67639

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-67639****NLRP3/NALP3 Antibody (SC06-23)**

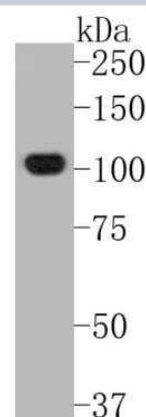
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SC06-23
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol
Target Molecular Weight	118 kDa

Product Description	
Host	Rabbit
Gene ID	114548
Gene Symbol	NLRP3
Species	Human, Mouse, Rat
Immunogen	Recombinant protein within Human NLRP3/NALP3 aa 5-161 / 1036. (SwissProt: Q96P20 Human; SwissProt: Q8R4B8 Mouse; Entrez Gene: 287362 Rat)

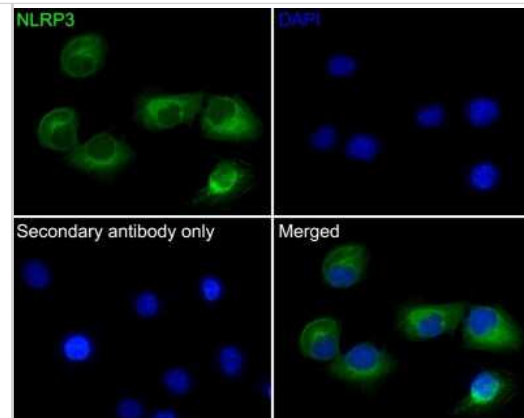
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:1000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:50-1:400

**Images**

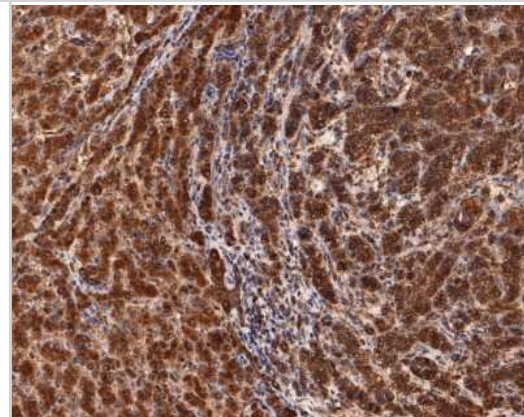
Western Blot: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Analysis of NLRP3 on human lung tissue lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hr at room temperature. The primary antibody (1:500) was used in 5% BSA at room temperature for 2 hrs. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hr at room temperature.



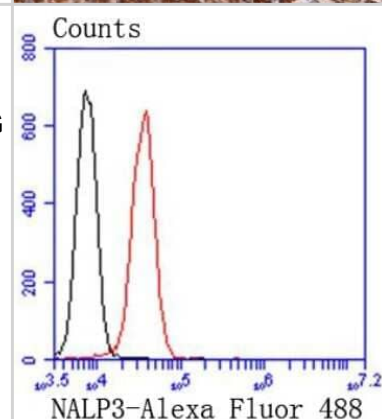
**Immunocytochemistry/Immunofluorescence: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Analysis of HUVEC cells labeling NLRP3/NALP3 with Rabbit anti-NLRP3 antibody (permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-NLRP3 antibody was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



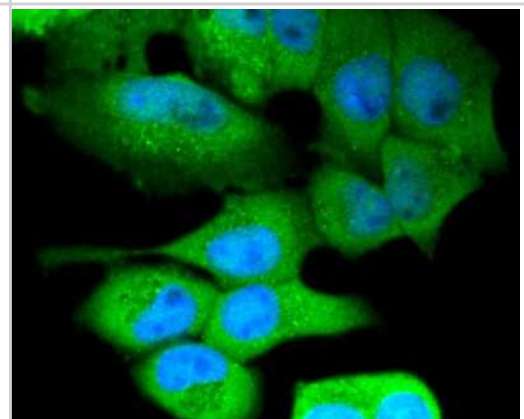
**Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Analysis of paraffin-embedded human liver carcinoma tissue with Rabbit anti-NLRP3/NALP3 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/100 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



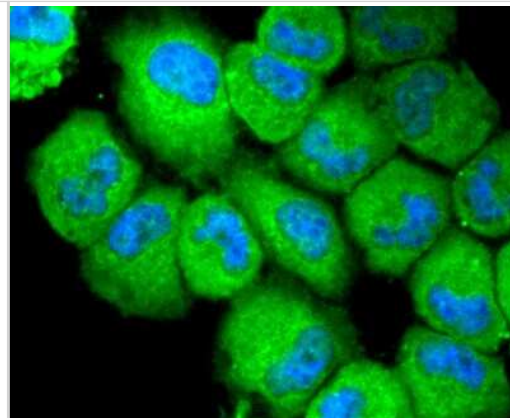
**Flow Cytometry: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Analysis of Jurkat cells with NLRP3 antibody at 1:50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



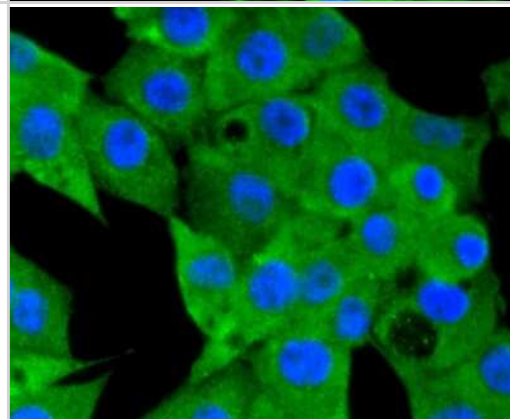
**Immunocytochemistry/Immunofluorescence: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Staining NLRP3 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X-100 in PBS.



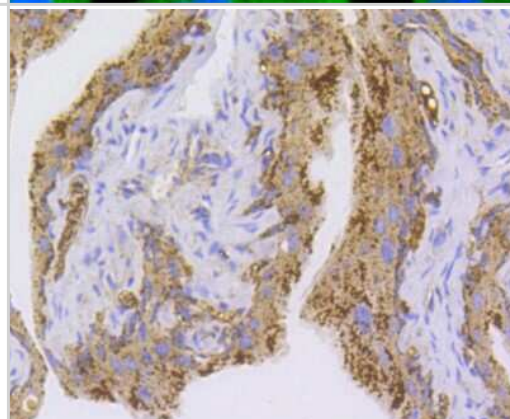
Immunocytochemistry/Immunofluorescence: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Staining NLRP3 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X-100 in PBS.



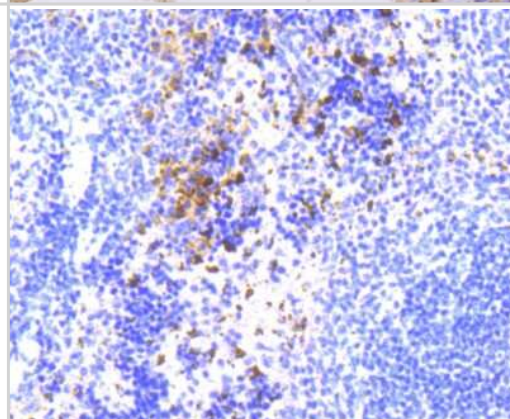
Immunocytochemistry/Immunofluorescence: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Staining NLRP3 in PMVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X-100 in PBS.



Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Analysis of paraffin-embedded mouse bladder tissue using anti- NLRP3 antibody. Counter stained with hematoxylin.

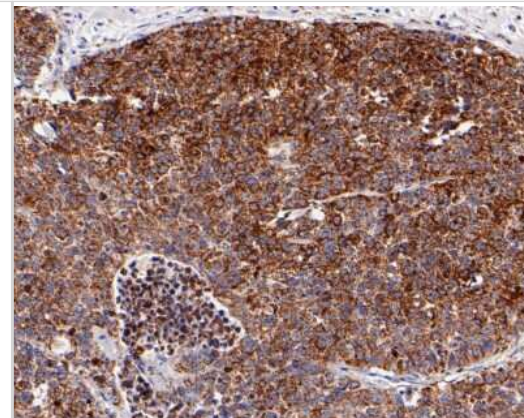


Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Analysis of paraffin-embedded mouse spleen tissue using anti- NLRP3 antibody. Counter stained with hematoxylin.

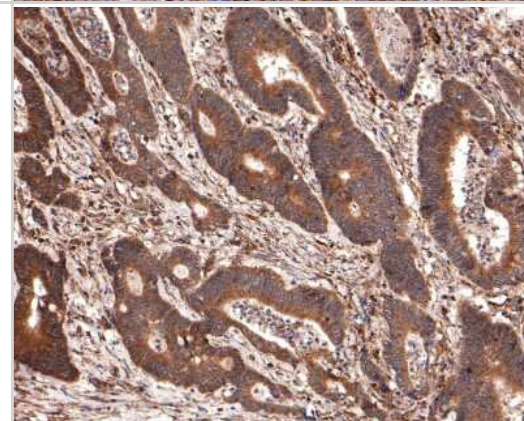




**Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Analysis of paraffin-embedded human lung carcinoma tissue using anti-NLRP3/NALP3 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Analysis of paraffin-embedded human colon carcinoma tissue with Rabbit anti-NLRP3/NALP3 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/400 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



## Publications

Li S, Cai Y, Shi Q et al. The NLRP3 inflammasome in alveolar macrophages promotes angiogenesis in intermittent short-duration reoxygenation which relieves chronic hypoxic pulmonary hypertension Research Square 2023-03-16 (Western Blot)

Fu Y, Cao J, Wei X et al. Klotho alleviates contrast-induced acute kidney injury by suppressing oxidative stress, inflammation, and NF-KappaB/NLRP3-mediated pyroptosis International immunopharmacology 2023-05-01 [PMID: 37018977] (Western Blot, Human)

Lee S, Ryu SM, Kim DH et al. Neuroprotective effect of Geijigadaehwang-tang against trimethyltin-induced hippocampal neurodegeneration: An in vitro and in vivo study Journal of ethnopharmacology 2022-06-17 [PMID: 35724744] (WB, Mouse)

Abu-Risha SE, Mousa MA, Elsis AE Protective role of irbesartan against cyclophosphamide-induced testicular damage in rats via up-regulating PPAR-gamma signaling and ameliorating NF-kappaB/NLRP3/IL-18 inflammatory axis Life sciences 2022-01-15 [PMID: 34890588] (IF/IHC, Rat)



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### **Products Related to NBP2-67639**

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00114548-P01-2ug	Recombinant Human NLRP3/NALP3 GST (N-Term) Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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