

bsm-61254R**[Primary Antibody]****BioSS**
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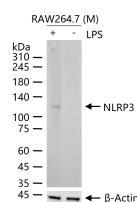
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NLRP3 Recombinant Rabbit mAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Recombinant	CloneNo.: 1F5	Reactivity: Mouse (predicted: Human, Rat)
GeneID: 114548	SWISS: Q96P20	Predicted MW.: 118 kDa
Target: NLRP3		Observed MW.: 120 kDa
Immunogen: A synthesized peptide derived from human NLRP3: 1-150/1036.		Subcellular Location: Cytoplasm
Purification: affinity purified by Protein A		
Storage: 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol. Store at 4°C for short term. Store at -20°C for long term. Avoid repeated freeze/thaw cycles.		
Background: Sensor component of the NLRP3 inflammasome, which mediates inflammasome activation in response to defects in membrane integrity, leading to secretion of inflammatory cytokines IL1B and IL18 and pyroptosis.		

— VALIDATION IMAGES —

RAW264.7 (M) cells were treated with or without LPS (10 µg/ml) for 8 h, 25 µg total protein per lane of cell lysates (see on figure) probed with NLRP3 monoclonal antibody, unconjugated (bsm-61254R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

— SELECTED CITATIONS —

- **[IF=7.6]** Yu Guo. et al. USP9X suppression attenuates NLRP3 inflammasome activation and ameliorates neuroinflammatory phenotypes with motor function recovery in murine models. BRAIN BEHAV IMMUN. 2026 Feb;132:106215 IF ;Mouse,Rat. 41381011
- **[IF=5.7]** Zhang Jia-Xuan. et al. Ethanol extract of Astragali Radix inhibits M1 macrophage polarization to alleviate ulcerative colitis by promoting Lactobacillus reuteri-produced indole-3-carboxaldehyde and formononetin. CHIN MED-UK. 2026 Dec;21(1):99 IF ;MOUSE. 41857597
- **[IF=4.9]** Yating Xu. et al. Antimicrobial Peptide CATH-2 Attenuates Avian Pathogenic E. coli-Induced Inflammatory Response via NF-κB/NLRP3/MAPK Pathway and Lysosomal Dysfunction in Macrophages. INT J MOL SCI. 2024 Nov;25(23):12572 IF ;Mouse. 39684284
- **[IF=4]** Ying Wang. et al. Transcranial direct current stimulation attenuates cerebral ischemia-reperfusion injury by inhibiting neuronal pyroptosis via Netrin-1. NEUROCHEM INT. 2025 Nov;190:106041 WB,IF ;Rat. 40876786
- **[IF=3.9]** Zhang Yingying. et al. Association between endogenous lactate accumulation and dysregulated activation of the NLRP3 inflammasome pathway in schizophrenia. SCI REP-UK. 2025 Jun;15(1):1-19 IF ;Rat. 40467771