bsm-61254R **[Primary Antibody]**

NLRP3 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 1F5
GeneID: 114548
SWISS: Q96P20
Target: NLRP3

Immunogen: A synthesized peptide derived from human NLRP3: 1-150/1036.

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.

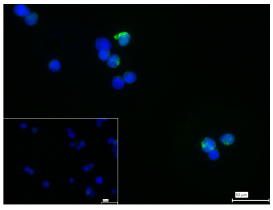
Applications: **ICC/IF** (1:50-200)

Reactivity: Human (predicted: Mouse, Rat)

Predicted MW.: 118

Subcellular Location: Cytoplasm

VALIDATION IMAGES



4% Paraformaldehyde-fixed THP-1(H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (NLRP3) monoclonal Antibody, unconjugated (bsm-61254R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

SELECTED CITATIONS

- **[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=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
- **[IF=3]** Jiamin Wang. et al. Establishment and optimization of a novel mouse model of hyperuricemic nephropathy. RENAL FAILURE. 2024 Nov 14 WB ;Mouse. 39540397
- **[IF=2.7]** Jie Xu. et al. NLRP3 proteins translocation into nuclei mediates SV40 T-antigen-induced corneal epithelial cell immortalization. EXP EYE RES. 2025 Sep;258:110455 IF ;Human. 40441404

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.