bs-6655R **[Primary Antibody]**

NALP3/CIAS1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 114548 **SWISS:** Q96P20

Target: NALP3/CIAS1

Immunogen: KLH conjugated synthetic peptide derived from human Cryopyrin: 551-630/1036.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: May function as an inducer of apoptosis. Interacts selectively with ASC and this complex may function as an upstream activator of NF-kappa-B signaling. Inhibits TNF-alpha induced activation and nuclear translocation of RELA/NF-KB p65. Also inhibits transcriptional activity of RELA. Activates caspase-1 in response to a number of triggers including bacterial or viral infection which leads to processing and release of IL1B and IL18. Subcellular Location : Cytoplasm.

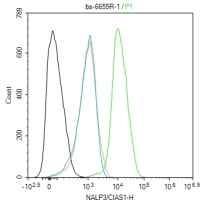
Applications: **Flow-Cyt** (1ug/Test)

Reactivity: Mouse (predicted: Human, Rat)

Predicted MW.: 114 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Blank control（black line）:Raw264.7. Primary Antibody (green line): Rabbit Anti-NALP3/CIAS1 antibody (bs-6655R) Dilution:1ug/Test; Secondary Antibody（white blue line）: Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）: Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=13.8]** Zhou Xinghong. et al. Gut microbiota dysbiosis in hyperuricaemia promotes renal injury through the activation of NLRP3 inflammasome. MICROBIOME. 2024 Dec;12(1):1-20 WB ;Rat. 38907332
- **[IF=10.761]** Zineng Yan. et al. Engineering exosomes by three-dimensional porous scaffold culture of human umbilical cord mesenchymal stem cells promotes osteochondral repair. MATER TODAY BIO. 2023 Jan;:100549 IF ;Mouse. 36756208

- **[IF=8.131]** Runxiao Zheng. et al. Particulate matter aggravates Alzheimer's disease by activating the NLRP3 inflammasome to release ASC specks. Environ Sci-Nano. 2021 Jun;: WB ;Mouse. 10.1039/D1EN00361E
- **[IF=6.817]** Shuaitao Yang. et al. Blockage of transient receptor potential vanilloid 4 prevents postoperative atrial fibrillation by inhibiting NLRP3-inflammasome in sterile pericarditis mice. CELL CALCIUM. Cell Calcium. 2022 Apr;:102590 WB ;Mouse. 35439615
- **[IF=6.922]** Wei Zhou. et al. Computational Systems Pharmacology, Molecular Docking and Experiments Reveal the Protective Mechanism of Li-Da-Qian Mixture in the Treatment of Glomerulonephritis. J Inflamm Res. 2021 Dec;14:6939-6958 WB ;Mouse. 34949932