

# NLRP3 Rabbit mAb

Catalog No.: A24294 **Recombinant** **8 Publications**

## Basic Information

### Observed MW

110kDa//110KD

### Calculated MW

118kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,IP,ELISA

### Cross-Reactivity

Mouse

### CloneNo number

ARC62768

## Background

Enables DNA-binding transcription factor binding activity and sequence-specific DNA binding activity. Involved in several processes, including positive regulation of T-helper cell differentiation; positive regulation of cytokine production; and response to bacterium. Acts upstream of or within several processes, including NLRP3 inflammasome complex assembly; activation of cysteine-type endopeptidase activity involved in apoptotic process; and defense response to virus. Located in cytoplasm and nucleus. Part of NLRP3 inflammasome complex. Is expressed in central nervous system and retina. Used to study CINCA Syndrome; familial cold autoinflammatory syndrome 1; and non-alcoholic fatty liver disease. Human ortholog(s) of this gene implicated in CINCA Syndrome; Muckle-Wells syndrome; autosomal dominant nonsyndromic deafness 34; familial cold autoinflammatory syndrome 1; and urticaria. Orthologous to human NLRP3 (NLR family pyrin domain containing 3).

## Recommended Dilutions

**WB** 1:1000 - 1:6000

**IF/ICC** 1:100 - 1:500

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Contact

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## Immunogen Information

### Gene ID

216799

### Swiss Prot

Q8R4B8

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-150 of mouse NLRP3(NP\_665826.1).

### Synonyms

FCU; MWS; FCAS; Cias1; Mmig1; NALP3; Pypaf1; All/AVP; AGTAVPRL; NLRP3

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

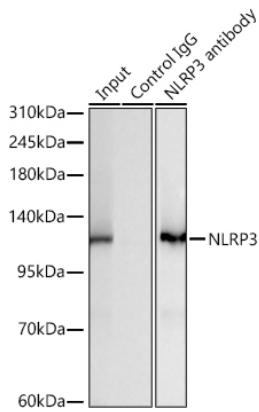
Affinity purification

### Storage

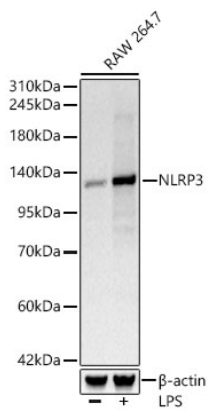
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

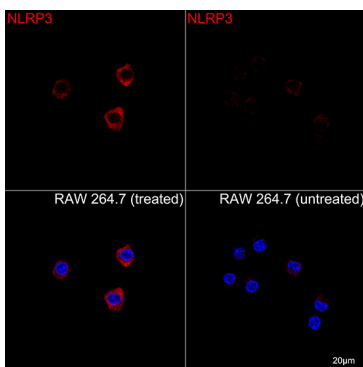
## Validation Data



Immunoprecipitation of NLRP3 from 300  $\mu$ g extracts of RAW 264.7 cells treated by LPS (1  $\mu$ g/ml, 8h) was performed using 3  $\mu$ g of NLRP3 Rabbit mAb (A24294). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using NLRP3 Rabbit mAb (A24294) at a dilution of 1:2000.



Western blot analysis of lysates from RAW 264.7 cells, using NLRP3 Rabbit mAb (A24294) at 1:1000 dilution. Raw264.7 cells were treated by LPS (1  $\mu$ g/ml) at 37°C for 8 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Confocal imaging of RAW 264.7 cells (treated with LPS) and RAW 264.7 cells (untreated) using NLRP3 Rabbit mAb (A24294, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.