

NLRP3 Rabbit mAb

Catalog No.: A24294

Recombinant

5 Publications

Basic Information

Observed MW

110kDa/

Calculated MW

118kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC, IP

Cross-Reactivity

Mouse, Rat

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 1:500 - 1:1000**IF/ICC** 1:100 - 1:500**IP** 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

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; Ail/AVP; AGTAVPRL; NLRP3

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

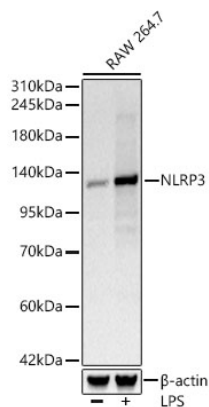
Affinity purification

Storage

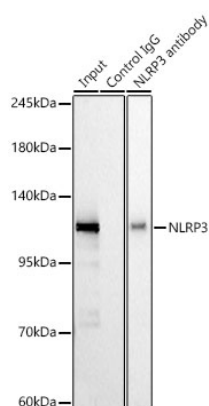
Store at -20°C. Avoid freeze / thaw cycles.

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

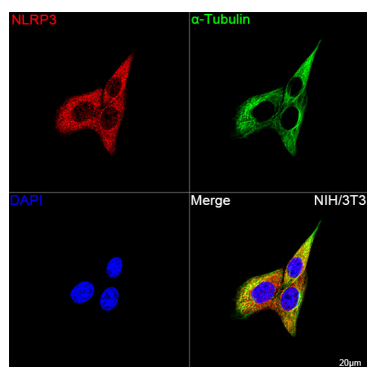
Validation Data



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



Immunoprecipitation of NLRP3 in 200 µg extracts from RAW 264.7 cells using 0.5 µg NLRP3 Rabbit mAb (A24294). Western blot analysis was performed using NLRP3 Rabbit mAb (A24294) at 1:2000 dilution.



Confocal imaging of NIH/3T3 cells 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). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.