

# NLRP3 Monoclonal Antibody (768319)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	768319
Conjugate	Unconjugated
Immunogen	E. coli-derived recombinant mouse NLRP3/NALP3 Met1-Arg153
Form	Lyophilized
Concentration	0.5 mg/mL
Purification	Protein A/G
Storage buffer	PBS with 5% trehalose
Contains	No Preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2605972

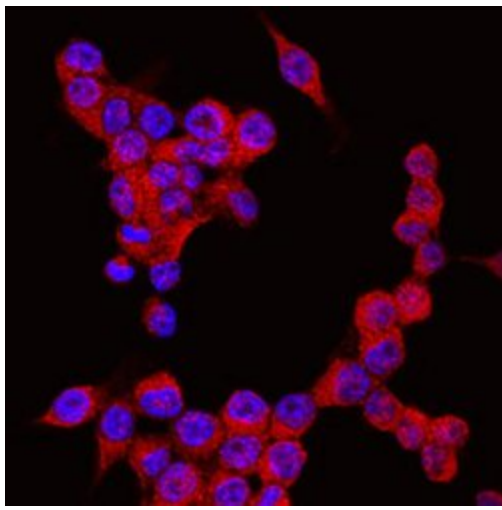
Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	8-25 µg/mL	2 Publications
Flow Cytometry (Flow)	2.5 µg/1x10 <sup>6</sup> cells	-

## Product Specific Information

In direct ELISAs, 100% cross-reactivity with recombinant human NLRP3/NALP3 is observed.

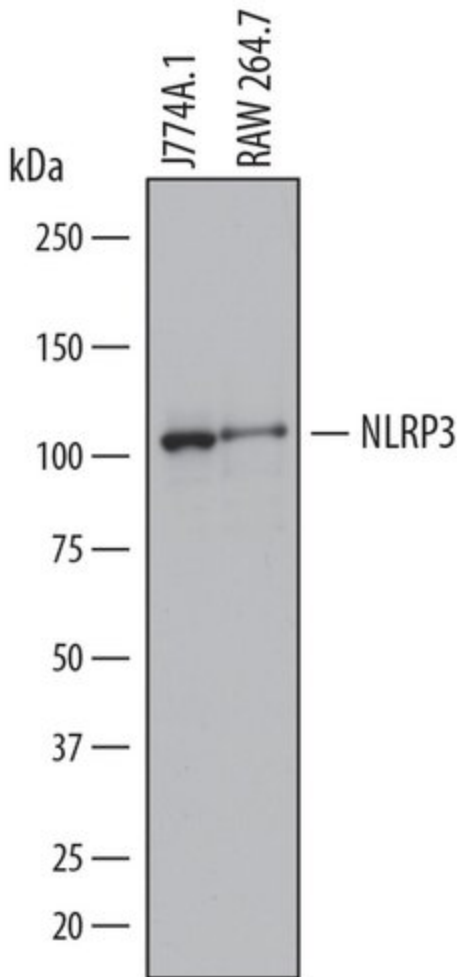
Reconstitute in sterile PBS to a final concentration of 0.5 mg/mL.

## Product Images For NLRP3 Monoclonal Antibody (768319)



### NLRP3 Antibody (MA5-23919) in ICC/IF

Immunocytochemical analysis of NLRP3/NALP3 was detected in immersion fixed RAW 264.7 mouse monocyte/macrophage cell line using Rat Anti-human/mouse NLRP3/NALP3 Monoclonal Antibody (Product # MA5-23919) at 10 µg/mL for 3 hours at room temperature. Cells were stained using a 557-conjugated Anti-Rat IgG Secondary Antibody (re and counterstained with DAPI (blue). Specific staining was localized to cytoplasm.

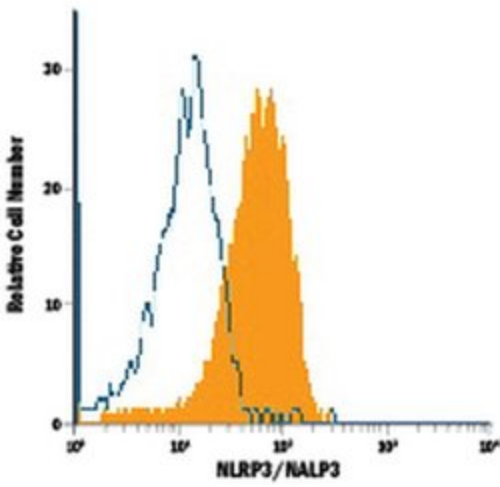


### NLRP3 Antibody (MA5-23919) in WB

Western blot analysis from lysates of J774A.1 mouse reticulum cell sarcoma macrophage cell line and RAW 264.7 mouse monocyte/macrophage cell line. PVDF membrane was probed with 2 µg/mL of Rat Anti-human/mouse NLRP3/NALP3 Monoclonal Antibody (Product # MA5-23919) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody. A specific band was detected for NLRP3/NALP3 at approximately 117 kDa (as indicated). This experiment was conducted under reducing conditions.

### NLRP3 Antibody (MA5-23919) in Flow

Flow cytometric analysis of human peripheral blood monocytes was stained with Rat Anti-human/mouse NLRP3/NALP3 Monoclonal Antibody (Product # MA5-23919) or isotype control antibody (open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody. To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.



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## Western Blot (2)

Journal of neuroinflammation

### Microbial BMAA elicits mitochondrial dysfunction, innate immunity activation, and Alzheimer's disease features in cortical neurons.

"MA5-23919 was used in Western Blotting to show that neurons, alone, can mount inflammatory responses, a role previously attributed exclusively to glial cells."

Authors: Silva DF,Candeias E,Esteves AR,Magalhães JD,Ferreira IL,Nunes-Costa D,Rego AC,Empadinhas N,Cardoso SM

**Species**  
Mouse  
Not Applicable

**Dilution**  
1:750  
Not Cited

**Year**  
2020

International journal of molecular sciences

### Saquinone Protects Renal Mesangial Cell Dysfunction against Angiotensin II by Improving Renal Fibrosis and Inflammation.

"MA5-23919 was used in Immunocytochemistry to investigate the role of saquinone in mesangial cell proliferation and fibrosis induced by angiotensin II, as well as the underlying mechanisms of these processes."

Authors: Yoon JJ, Lee HK, Kim HY, Han BH, Lee HS, Lee YJ, Kang DG

**Species**  
Human  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2020

## Immunohistochemistry (PFA fixed) (1)

Cell reports

### Hyperactivity of Innate Immunity Triggers Pain via TLR2-IL-33-Mediated Neuroimmune Crosstalk.

"MA5-23919 was used in Immunohistochemistry (PFA fixed) to report that hyperactivity of innate immunity primes and initiates pain states via the TLR2-interleukin-33 (IL-33) axis."

Authors: Huang J, Gandini MA, Chen L, M'Dahoma S, Stemkowski PL, Chung H, Muruve DA, Zamponi GW

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

## Immunocytochemistry (2)

International journal of molecular sciences

### Saquinone Protects Renal Mesangial Cell Dysfunction against Angiotensin II by Improving Renal Fibrosis and Inflammation.

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Authors: Yoon JJ, Lee HK, Kim HY, Han BH, Lee HS, Lee YJ, Kang DG

**Species**  
Human  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2020

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