

NLRP3 Monoclonal Antibody (25N10E9)

Catalog NumberMA5-16274

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Mouse
Host/Isotope	Mouse / IgG2b, kappa	Published species	Mouse
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Western Blot (WB)	2-5 µg/mL
Clone	25N10E9	Published Applications	
Immunogen	Recombinant mNLRP3 NOD domain protein (AA 216-385).	Western Blot (WB)	See 1 publications below
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.05% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Background/Target Information

This gene encodes a pyrin-like protein containing a pyrin domain, a nucleotide-binding site domain, and a leucine-rich repeat motif. This protein interacts with the apoptosis-associated speck-like protein PYCARD/ASC, which contains a caspase recruitment domain, and is a member of the NALP3 inflammasome complex. This complex functions as an upstream activator of NF-kappaB signaling, and it plays a role in the regulation of inflammation, the immune response, and apoptosis. Mutations in this gene are associated with familial cold autoinflammatory syndrome, and neonatal-onset multisystem inflammatory disease. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Alternative 5' UTR structures are suggested by available data; however, insufficient evidence is available to determine if all of the represented 5' UTR splice patterns are biologically valid.

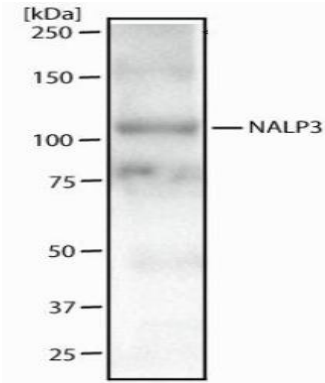
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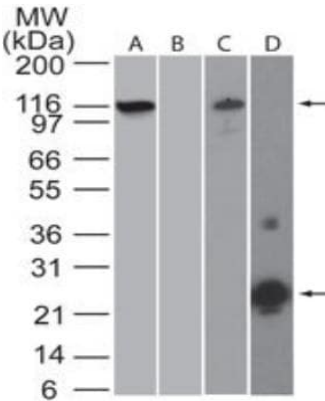
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Product Images For NLRP3 Monoclonal Antibody (25N10E9)



NLRP3 Antibody (MA5-16274) in WB
Western blot analysis of NLRP3 in Raw 264 cell lysate. Samples were incubated in NLRP3 monoclonal antibody (Product # MA5-16274) using a dilution of 2 µg/mL.



NLRP3 Antibody (MA5-16274) in WB
Western blot analysis of NLRP3 in mouse RAW lysate, recombinant mouse NLRP3 NOD domain protein immunogen. Samples were incubated in NLRP3 monoclonal antibody (Product # MA5-16274) using a dilution of 2 µg/mL followed by a Goat anti-mouse IgG HRP secondary antibody. Lane A and B: mouse RAW lysate; Lane C: recombinant mouse NLRP3 NOD domain protein immunogen; Lane D: primary antibody. PicoTect ECL substrate solution was used for this test.



NLRP3 Antibody (MA5-16274) in WB
Western blot analysis of NLRP3 in 0.5 mg/mL RAW lysate. Samples were incubated in NLRP3 monoclonal antibody (Product # MA5-16274). This experiment was performed under reducing conditions using the 12-230 kDa separation system.

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PubMed References For NLRP3 Monoclonal Antibody (25N10E9)

1 Western Blot References

Species / Dilution	Summary
	MA5-16274 was used in Western Blotting to investigate inflammasome-mediated responses to lipopolysaccharide in primary macrophages and bone marrow-derived macrophages (BMDMs) from wild-type mice and ASK1-/- mice, as well as the mouse alveolar macrophage cell line MH-S.
Mouse / Not Cited	American journal of physiology. Lung cellular and molecular physiology (2019; 316: L418) "Apoptosis signal-regulating kinase-1 promotes inflammasome priming in macrophages." Author(s):Immanuel CN,Teng B,Dong B,Gordon EM,Kennedy JA,Luellen C,Schwingshackl A,Cormier SA,Fitzpatrick EA,Waters CM PubMed Article URL: http://dx.doi.org/10.1152/ajplung.00199.2018

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