

For Research Use Only

# NLRP3 Recombinant monoclonal antibody

Catalog Number: 85967-1-RR



## Basic Information

<b>Catalog Number:</b> 85967-1-RR	<b>GenBank Accession Number:</b> NM_145827	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 216799	<b>CloneNo.:</b> 250083C8
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q8R4B8	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000
<b>Immunogen Catalog Number:</b> AG32515	<b>Full Name:</b> NLR family, pyrin domain containing 3	
	<b>Calculated MW:</b> 118kd	
	<b>Observed MW:</b> 108-120 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
mouse, rat

### Positive Controls:

WB : LPS and Brefeldin A treated NR8383 cells, LPS treated RAW 264.7 cells

## Background Information

NLRP3, also named as NALP3, CIASI, C1orf7, PYPAF1, Cryopyrin and MIM606416, belongs to NLR family. NLRP3, a key and eponymous component of the NLRP3 inflammasome, plays a crucial role in innate immunity and inflammation. NLRP3 inflammasome is expressed in immune cells, including monocytes, macrophages, and dendritic cells. When the NLRP3 inflammasome is activated, the PYD domain of NLRP3 mediates recruitment of an adaptor protein called ASC and the effector protein procaspase-1 to form an NLRP3 inflammasome complex that can cleave inactive procaspase-1 to from active caspase-1. And then the active caspase-1 results in secretion of interleukin (IL)-18 and IL-1 $\beta$ . Activation of the NLRP3 inflammasome is also required for HMGB1 secretion. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death (PMID:27669650). NLRP3 has some isoforms with the MW of 106-118 kDa and 75-83 kDa. An additional 130-135 kDa band could also be detected (PMID: 17164409; PMID: 34680443; PMID: 35585627). This antibody is specific for mouse NLRP3.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

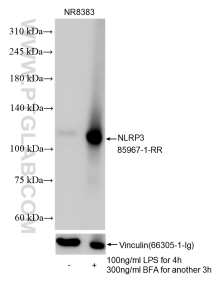
T: 4006900926

E: Proteintech-CN@ptglab.com

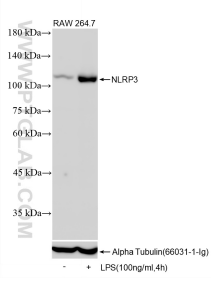
W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85967-1-RR (NLRP3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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