

For Research Use Only

Mouse NLRP3 Recombinant monoclonal antibody, PBS Only

Catalog Number: 85967-1-PBS



Basic Information

Catalog Number: 85967-1-PBS	GenBank Accession Number: NM_145827	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 216799	CloneNo.: 250083C8
Source: Rabbit	UNIPROT ID: Q8R4B8	
Isotype: IgG	Full Name: NLR family, pyrin domain containing 3	
Immunogen Catalog Number: AG32515	Calculated MW: 118kd	
	Observed MW: 108-120 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
mouse, rat

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 form active caspase-1. And then the active caspase-1 results in secretion of interleukin (IL)-18 and IL-1 β . 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

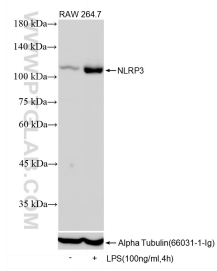
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

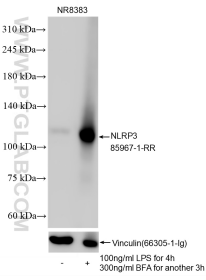
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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Selected Validation Data



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. This data was developed using the same antibody clone with 85967-1-PBS in a different storage buffer formulation.



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