

For Research Use Only

# NLRP12 Recombinant antibody

Catalog Number: 83123-6-RR



## Basic Information

<b>Catalog Number:</b> 83123-6-RR	<b>GenBank Accession Number:</b> BC028069	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 91662	<b>CloneNo.:</b> 241838E11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P59046	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> NLR family, pyrin domain containing 12	
<b>Immunogen Catalog Number:</b> AG34281	<b>Calculated MW:</b> 1061 aa, 120 kDa	
	<b>Observed MW:</b> 95-110 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse liver tissue,
<b>Species Specificity:</b> human, mouse	

## Background Information

NACHT, LRR and PYD domains-containing protein 12 (NLRP12) is also named as Monarch-1, NALP12, PYPAF7 and RNO. NLRP12 is an essential cytosolic sensor for heme plus PAMPs-mediated PANoptosis, inflammation, and pathology (PMID: 37267949). NLRP12 drives inflammasome and PANoptosome activation, cell death, and inflammation in response to heme plus PAMPs or TNF. TLR2/4-mediated signaling through IRF1 induced Nlrp12 expression, which led to inflammasome formation to induce maturation of IL-1 $\beta$  and IL-18 (PMID: 37267949). NLRP12, a pyrin-containing NLR protein, is a negative regulator of innate immune activation and type I interferon (IFN-I) production (PMID: 36719379).

## Storage

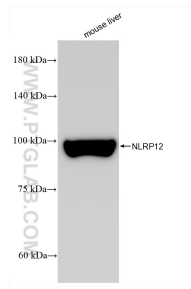
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

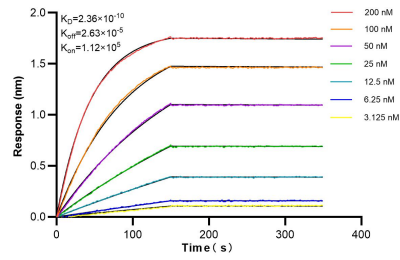
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Mouse liver tissue was subjected to SDS PAGE followed by western blot with 83123-6-RR (NLRP12 antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83123-6-RR against Human NLRP12 were performed. The affinity constant is 0.236 nM.