

For Research Use Only

# NLRP12 Polyclonal antibody

Catalog Number:30998-1-AP



## Basic Information

**Catalog Number:**

30998-1-AP

**Size:**

150ul , Concentration: 450 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG34281

**GenBank Accession Number:**

BC028069

**GeneID (NCBI):**

91662

**UNIPROT ID:**

P59046

**Full Name:**

NLR family, pyrin domain containing 12

**Calculated MW:**

1061 aa, 120 kDa

**Observed MW:**

95-110 kDa

**Purification Method:**

Antigen affinity Purification

**Recommended Dilutions:**

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

WB, IP, ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

WB : mouse liver tissue, rat liver tissue

IP : rat liver tissue, PC-3 cells

## Background Information

NACHT, LRR and PYD domains-containing protein 12 (NLRP12) is also named as Monarch-1, NALP12, PYPAF7 and RNO. NLRP12 is as 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

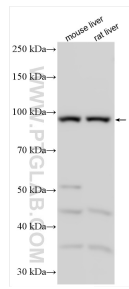
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

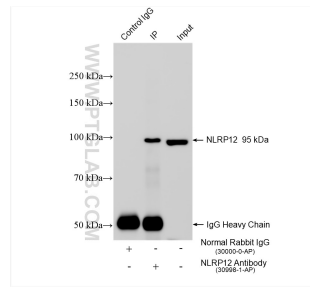
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30998-1-AP (NLRP12 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-NLRP12 (IP:30998-1-AP, 4ug; Detection:30998-1-AP 1:500) with rat liver tissue lysate 2695 ug.