

For Research Use Only

NLRP12 Polyclonal antibody

Catalog Number: 30998-1-AP



Basic Information

Catalog Number:

30998-1-AP

Size:

450 µg/ml

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 µg 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 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 β 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

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

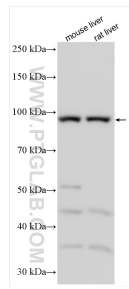
T: 4006900926

E: Proteintech-CN@ptglab.com

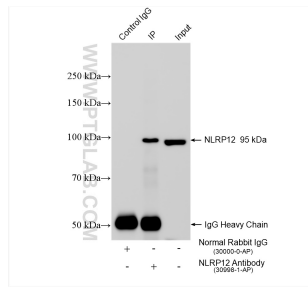
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 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.