

**NLRP12 Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7281C**

**Specification**

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**NLRP12 Antibody - Product Information**

Application	<b>WB,E</b>
Primary Accession	<a href="#">P59046</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>

**NLRP12 Antibody - Additional Information**

**Gene ID** 91662

**Other Names**

NACHT, LRR and PYD domains-containing protein 12, Monarch-1, PYRIN-containing APAF1-like protein 7, Regulated by nitric oxide, NLRP12, NALP12, PYPAF7, RNO

**Target/Specificity**

This NLRP12 antibody is generated from rabbits immunized with human NLRP12 recombinant protein.

**Dilution**

WB~~1:500-1:2000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NLRP12 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**NLRP12 Antibody - Protein Information**

**Name** NLRP12

**Synonyms** NALP12, PYPAF7, RNO

**Function** Plays an essential role as an potent mitigator of inflammation (PubMed:[30559449](#)). Primarily expressed in dendritic cells and macrophages, inhibits both canonical and non-canonical NF-kappa-B and ERK activation pathways (PubMed:[15489334](#), PubMed:[17947705](#)). Functions as a

negative regulator of NOD2 by targeting it to degradation via the proteasome pathway (PubMed:[30559449](#)). In turn, promotes bacterial tolerance (PubMed:[30559449](#)). Inhibits also the RIGI- mediated immune signaling against RNA viruses by reducing the E3 ubiquitin ligase TRIM25-mediated 'Lys-63'-linked RIGI activation but enhancing the E3 ubiquitin ligase RNF125-mediated 'Lys-48'-linked RIGI degradation (PubMed:[30902577](#)). Acts also as a negative regulator of inflammatory response to mitigate obesity and obesity-associated diseases in adipose tissue (By similarity).

#### Cellular Location

Cytoplasm.

#### Tissue Location

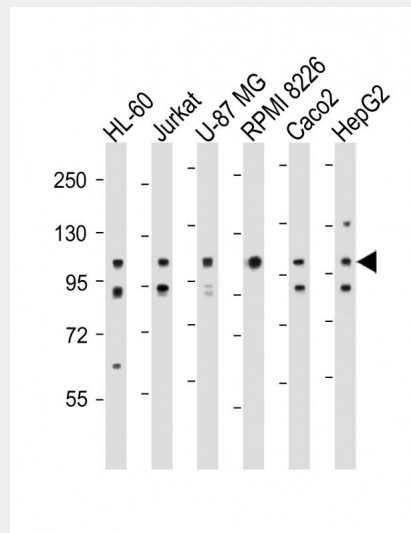
Detected only in peripheral blood leukocytes, predominantly in eosinophils and granulocytes, and at lower levels in monocytes.

### NLRP12 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### NLRP12 Antibody - Images



All lanes : Anti-NLRP12 Antibody at 1:500-1:2000 dilution Lane 1: HL-60 whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: U-87 MG whole cell lysate Lane 4: RPMI 8226 whole cell lysate Lane 5: Caco2 whole cell lysate Lane 6: HepG2 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 120 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### NLRP12 Antibody - Background

NALPs are cytoplasmic proteins that form a subfamily within the larger CATERPILLER protein family. Most short NALPs, such as NALP12, have an N-terminal pyrin (MEFV; MIM 608107) domain (PYD), followed by a NACHT domain, a NACHT-associated domain (NAD), and a C-terminal leucine-rich repeat (LRR) region. The long NALP, NALP1 (MIM 606636), also has a C-terminal extension containing a function to find domain (FIIND) and a caspase recruitment domain (CARD). NALPs are implicated in the activation of proinflammatory caspases (e.g., CASP1; MIM 147678) via their involvement in multiprotein complexes called inflammasomes.

#### **NLRP12 Antibody - References**

- Ye,Z., Mol. Cell. Biol. 28 (5), 1841-1850 (2008)  
Jeru,I., Proc. Natl. Acad. Sci. U.S.A. 105 (5), 1614-1619 (2008)  
Arthur,J.C., J. Immunol. 179 (9), 6291-6296 (2007)