

# NLRP12 Antibody

Mouse Monoclonal Antibody (Mab)

Catalog # AM1894b

## Product Information

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Application	WB, E
Primary Accession	<a href="#">P59046</a>
Other Accession	<a href="#">NP_150639.1</a> , <a href="#">NP_653288.1</a>
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgM,K
Clone Names	228CT4.1.3
Calculated MW	120173

## Additional Information

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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 monoclonal antibody is generated from mouse immunized with NLRP12 recombinant protein.
Dilution	WB~~1:500~1500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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.

## Protein Information

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Name	NLRP12
Synonyms	NALP12, PYPAF7, RNO
Function	Plays an essential role as an potent mitigator of inflammation (PubMed: <a href="#">30559449</a> ). 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](#)). Also inhibits 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](#)). Also acts 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.

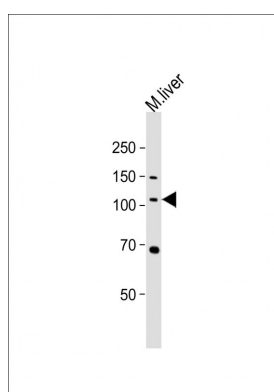
## Background

This gene encodes a member of the CATERPILLER family of cytoplasmic proteins. The encoded protein, which contains an N-terminal pyrin domain, a NACHT domain, a NACHT-associated domain, and a C-terminus leucine-rich repeat region, functions as an attenuating factor of inflammation by suppressing inflammatory responses in activated monocytes. Alternatively spliced transcript variants encoding distinct isoforms have been described but the full-length nature of some of these has not been determined.

## References

Bailey, S.D., et al. Diabetes Care (2010) In press : Cummings, J.R., et al. Tissue Antigens 76(1):48-56(2010)  
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Fahy, R.J., et al. Am. J. Respir. Crit. Care Med. 177(9):983-988(2008) Jeru, I., et al. Proc. Natl. Acad. Sci. U.S.A. 105(5):1614-1619(2008)

## Images



All lanes : Anti-NLRP12 Antibody at 1:500 dilution + mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgM, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 120 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.