

# **NLRP12 Antibody**

Mouse Monoclonal Antibody (Mab)
Catalog # AM1894b

# **Specification**

# **NLRP12 Antibody - Product Information**

Application WB,E
Primary Accession P59046

Other Accession <u>NP\_150639.1</u>, <u>NP\_653288.1</u>

Reactivity
Host
Clonality
Mouse
Mouse
Mouse
Mouse
Monoclonal
Isotype
IgM,K
Calculated MW
120173

# **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 monoclonal antibody is generated from mouse immunized with NLRP12 recombinant protein.

#### **Dilution**

WB~~1:500~1500

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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.

# **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**

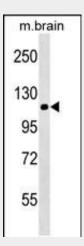
Detected only in peripheral blood leukocytes, predominantly in eosinophils and granulocytes, and at lower levels in monocytes.

# **NLRP12 Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **NLRP12 Antibody - Images**



NLRP12/MB10187 antibody (Cat. #AM1894b) western blot analysis in mouse brain tissue lysates ( $35\mu g$ /lane). This demonstrates the NLRP12/MB10187 antibody detected the NLRP12/MB10187 protein (arrow).

# **NLRP12 Antibody - 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,





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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.

# **NLRP12 Antibody - 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)