ARG43235
anti-NLRP12 / NALP12 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes NLRP12 / NALP12
Tested Reactivity	Ms
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NLRP12 / NALP12
Species	Mouse
Immunogen	Synthetic peptide around the internal region of Mouse NLRP12 / NALP12 (NP_001028603.1). (C-DDPPEPSGVQTQST)
Conjugation	Un-conjugated
Alternate Names	RNO2; RNO; PAN6; NALP12; Regulated by nitric oxide; PYRIN-containing APAF1-like protein 7; NACHT, LRR and PYD domains-containing protein 12; PYPAF7; FCAS2; CLR19.3; Monarch-1

Application Instructions

Application table

Application	Dilution
WB	1 - 3 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 110 kDa

Properties

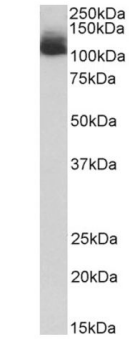
Form	Liquid
Purification	Ammonium sulphate precipitation followed by affinity purification with immunogen.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	NLRP12
Gene Full Name	NLR family, pyrin domain containing 12
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. Mutations in this gene cause familial cold autoinflammatory syndrome type 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]
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 DDX58-mediated immune signaling against RNA viruses by reducing the E3 ubiquitin ligase TRIM25-mediated 'Lys-63'-linked DDX58 activation but enhancing the E3 ubiquitin ligase RNF125-mediated 'Lys-48'-linked DDX58 degradation (PubMed:30902577). Acts also as a negative regulator of inflammatory response to mitigate obesity and obesity-associated diseases in adipose tissue (By similarity). [UniProt]
Calculated Mw	119 kDa
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG43235 anti-NLRP12 / NALP12 antibody WB image

Western blot: 35 µg of Mouse liver lysate (in RIPA buffer) stained with ARG43235 anti-NLRP12 / NALP12 antibody at 1 µg/ml dilution and incubated at RT for 1 hour.