

**ARG59461**  
**anti-NLRC4 / CARD12 antibody**Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes NLRC4 / CARD12
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NLRC4 / CARD12
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 838-874 of Human NLRC4 / CARD12. (KILAQNLHNLVKLSILDLSENYLEKDGNEALHELIDR)
Conjugation	Un-conjugated
Alternate Names	CLAN; AIFEC; IPAF; CLANA; CARD12; CLANC; CLANB; CLAND; NLR family CARD domain-containing protein 4; Caspase recruitment domain-containing protein 12; Ipaf; CLR2.1; CARD, LRR, and NACHT-containing protein; CLAN1; Ice protease-activating factor; Clan protein; FCAS4

### Application Instructions

Application table	Application	Dilution
	WB	0.1 - 0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

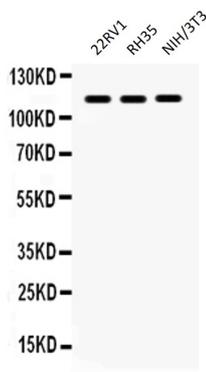
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	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	NLRC4
Gene Full Name	NLR family, CARD domain containing 4
Background	NLRC4 / CARD12 is a member of the caspase recruitment domain-containing NLR family. Family members play essential roles in innate immune response to a wide range of pathogenic organisms, tissue damage and other cellular stresses. Mutations in this gene result in autoinflammation with infantile enterocolitis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]
Function	NLRC4 / CARD12 is a key component. of inflammasomes that indirectly senses specific proteins from pathogenic bacteria and fungi and responds by assembling an inflammasome complex that promotes caspase-1 activation, cytokine production and macrophage pyroptosis (PubMed:15107016). The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria. [UniProt]
Highlight	Related products: <a href="#">NLRC4 antibodies</a> ; <a href="#">NLRC4 Duos / Panels</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ; Related news: <a href="#">Exploring Antiviral Immune Response</a>
Research Area	NLRC4 Inflammasome Study antibody
Calculated Mw	116 kDa
PTM	Phosphorylated at Ser-533 following infection of macrophages with S.typhimurium (Salmonella). Phosphorylation is essential for NLRC4 inflammasome function to promote caspase-1 activation and pyroptosis. PRKCD phosphorylates Ser-533 in vitro (By similarity). [UniProt]
Cellular Localization	Cytoplasm. Cytoplasm, cytosol. Note=Cytoplasmic filaments. [UniProt]

## Images



ARG59461 anti-NLRC4 / CARD12 antibody WB image

Western blot: 40 µg of 22RV1, 40 µg of RH35 and 40 µg of NIH/3T3 whole cell lysates stained with ARG59461 anti-NLRC4 / CARD12 antibody at 0.5 µg/ml dilution.