ARG59418
anti-NLRC4 / CARD12 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NLRC4 / CARD12
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NLRC4 / CARD12
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
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse spleen and U87
Observed Size	116 kDa

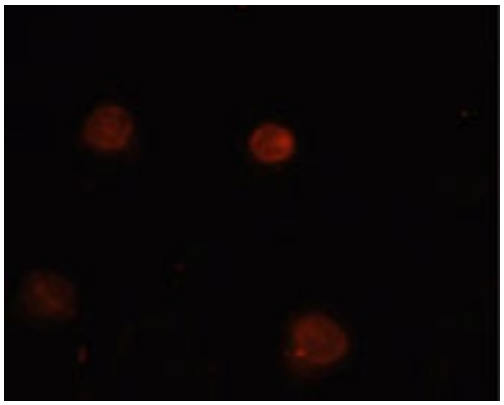
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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. 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

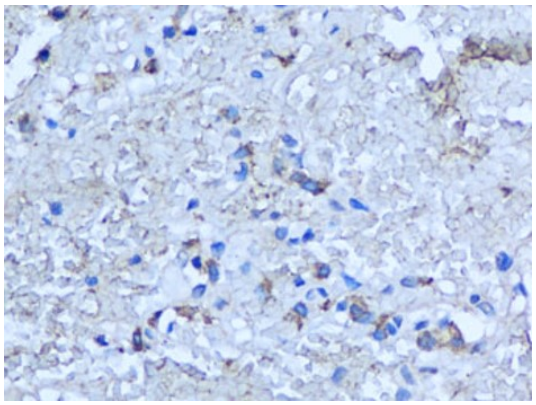
Gene Symbol	NLRC4
Gene Full Name	NLR family, CARD domain containing 4
Background	NLRC4 / CARD12 is a member of the caspase recruitment domain-containing NLR family. Family members play essential roles in innate immune response to a wide range of pathogenic organisms, tissue damage and other cellular 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 Antibody Duos and Panels: ARG30332 NLRC4 Inflammasome Antibody Panel Related products: NLRC4 antibodies; NLRC4 Duos / Panels; Anti-Rabbit IgG secondary antibodies; Related news: Exploring Antiviral Immune Response
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



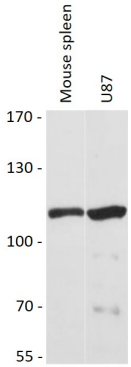
ARG59418 anti-NLRC4 / CARD12 antibody ICC/IF image

Immunofluorescence: THP-1 cells stained with ARG59418 anti-NLRC4 / CARD12 antibody (red).



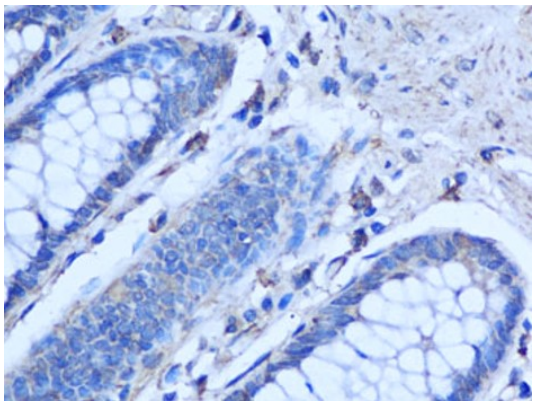
ARG59418 anti-NLRC4 / CARD12 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung stained with ARG59418 anti-NLRC4 / CARD12 antibody at 1:100 dilution (40x lens).



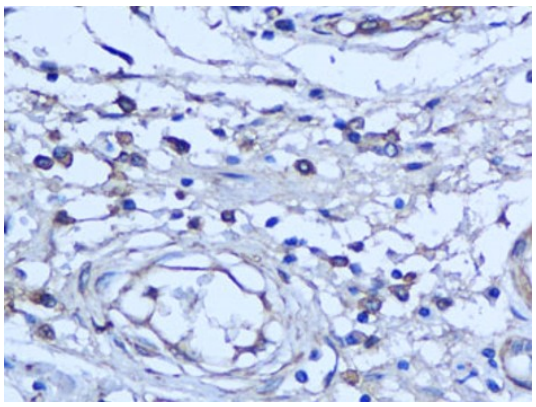
ARG59418 anti-NLRC4 / CARD12 antibody WB image

Western blot: 25 µg of Mouse spleen and U87 cell lysate stained with ARG59418 anti-NLRC4 / CARD12 antibody at 1:3000 dilution.



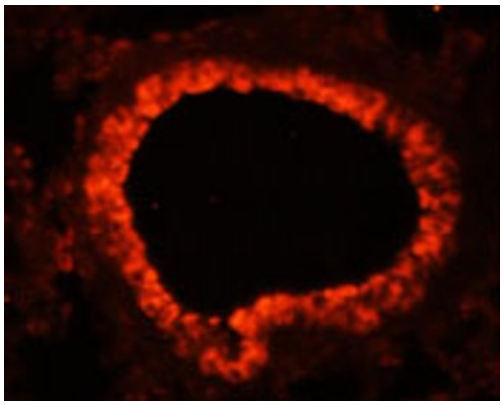
ARG59418 anti-NLRC4 / CARD12 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon stained with ARG59418 anti-NLRC4 / CARD12 antibody at 1:100 dilution (40x lens).



ARG59418 anti-NLRC4 / CARD12 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric stained with ARG59418 anti-NLRC4 / CARD12 antibody at 1:100 dilution (40x lens).



ARG59418 anti-NLRC4 / CARD12 antibody IHC-P image

Immunohistochemistry: Mouse lung stained with ARG59418 anti-NLRC4 / CARD12 antibody (orange-red).