

Anti-CARD12 Picoband Antibody
Catalog # ABO12359**Specification****Anti-CARD12 Picoband Antibody - Product Information**

Application	WB
Primary Accession	Q9NPP4
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for NLR family CARD domain-containing protein 4(NLRC4) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CARD12 Picoband Antibody - Additional Information

Gene ID 58484

Other Names

NLR family CARD domain-containing protein 4, CARD, LRR, and NACHT-containing protein, Clan protein, Caspase recruitment domain-containing protein 12, Ice protease-activating factor, Ipaf, NLRC4, CARD12, CLAN, CLAN1, IPAF

Calculated MW

116159 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cytoplasm . Cytoplasm, cytosol . Cytoplasmic filaments.

Tissue Specificity

Isoform 2 is expressed ubiquitously, although highly expressed in lung and spleen. Isoform 1 is highly expressed in lung, followed by leukocytes especially monocytes, lymph node, colon, brain, prostate, placenta, spleen, bone marrow and fetal liver. Isoform 4 is only detected in brain.

Protein Name

NLR family CARD domain-containing protein 4

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human CARD12 (838-874aa

KILAQNLHNLVKLSILDLSENYLEKDGNEALHELIDR), different from the related mouse sequence by five amino acids, and from the related rat sequence by seven amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-CARD12 Picoband Antibody - Protein Information**Name** NLRC4**Function**

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 (By similarity).

Cellular Location

Cytoplasm. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q3UP24}. Inflammasome

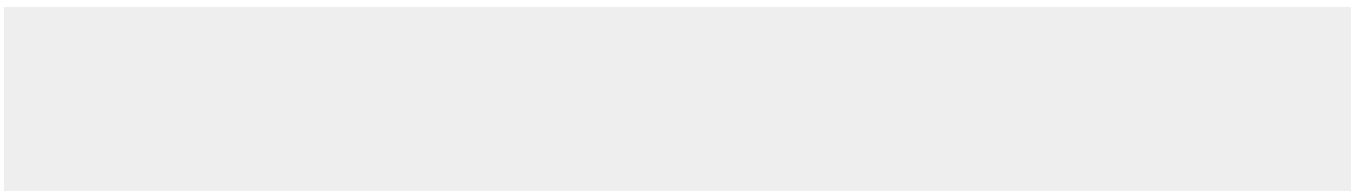
Tissue Location

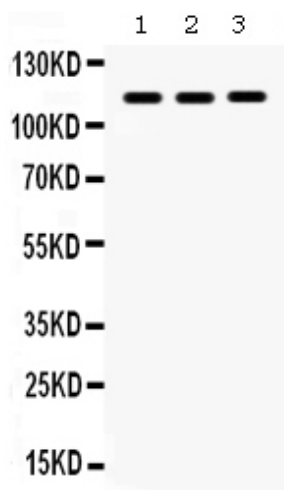
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Anti-CARD12 Picoband Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CARD12 Picoband Antibody - Images



Anti- CARD12 Picoband antibody, ABO12359, Western blotting All lanes: Anti CARD12 (ABO12359) at 0.5ug/ml
Lane 1: 22RV1 Whole Cell Lysate at 40ug
Lane 2: RH35 Whole Cell Lysate at 40ug
Lane 3: NIH3T3 Whole Cell Lysate at 40ug
Predicted bind size: 116KD
Observed bind size: 116KD

Anti-CARD12 Picoband Antibody - Background

NLR family CARD domain-containing protein 4, also known as CARD12, is a protein that in humans is encoded by the NLRC4 gene. It is mapped to 2p22.3. This gene encodes 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.