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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 NaN3.

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 r˚Constitution, 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
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

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 Cytomety
- Cell Culture

Anti-CARD12 Picoband Antibody - Images

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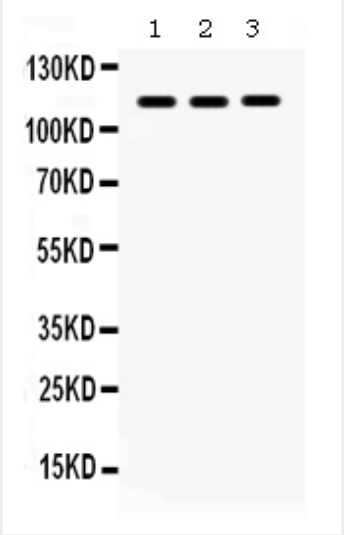

Anti- CARD12 Picoband antibody, ABO12359, Western blottingAll lanes: Anti CARD12 (ABO12359) at 0.5ug/mlLane 1: 22RV1 Whole Cell Lysate at 40ugLane 2: RH35 Whole Cell Lysate at 40ugLane 3: NIH3T3 Whole Cell Lysate at 40ugPredicted bind size: 116KDObserved bind size: 116KD

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.