

# Anti-CARD12 Picoband Antibody

Catalog # ABO12359

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                                                  |
| <b>Primary Accession</b> | <a href="#">Q9NPP4</a>                                                                                                              |
| <b>Host</b>              | Rabbit                                                                                                                              |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                                   |
| <b>Clonality</b>         | Polyclonal                                                                                                                          |
| <b>Format</b>            | Lyophilized                                                                                                                         |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for NLR family CARD domain-containing protein 4(NLRC4) detection. Tested with WB in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                |

## Additional Information

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| <b>Gene ID</b>                  | 58484                                                                                                                                                                                                                                                                                          |
| <b>Other Names</b>              | 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                                                                   |
| <b>Calculated MW</b>            | 116159                                                                                                                                                                                                                                                                                         |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat                                                                                                                                                                                                                                                 |
| <b>Subcellular Localization</b> | Cytoplasm . Cytoplasm, cytosol . Cytoplasmic filaments.                                                                                                                                                                                                                                        |
| <b>Tissue Specificity</b>       | 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. |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                                                                      |
| <b>Protein Name</b>             | NLR family CARD domain-containing protein 4                                                                                                                                                                                                                                                    |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                                                                                                                                     |
| <b>Immunogen</b>                | 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.                                    |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                                                                                                   |

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cross Reactivity</b> | No cross reactivity with other proteins                                                                                                                                               |
| <b>Storage</b>          | 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. |

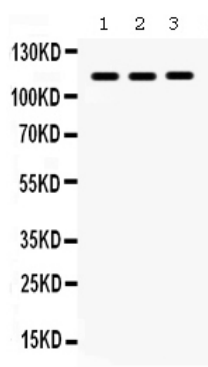
## Protein Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | NLRC4                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Function</b>          | 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: <a href="#">15107016</a> ). The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria (By similarity). |
| <b>Cellular Location</b> | Cytoplasm. Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q3UP24}. Inflammasome                                                                                                                                                                                                                                                                                                                                           |
| <b>Tissue Location</b>   | 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                                                                                                                        |

## 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.

## Images



Anti- CARD12 Picoband antibody, ABO12359, Western blottingAll 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.