

**CARMA1 / CARD11 Antibody (C-Terminus)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS12625****Specification**

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**CARMA1 / CARD11 Antibody (C-Terminus) - Product Information**

|                   |                                    |
|-------------------|------------------------------------|
| Application       | WB, IHC                            |
| Primary Accession | <a href="#">Q9BXL7</a>             |
| Reactivity        | Human, Mouse, Rat, Hamster, Monkey |
| Host              | Goat                               |
| Clonality         | Polyclonal                         |
| Calculated MW     | 133kDa KDa                         |

**CARMA1 / CARD11 Antibody (C-Terminus) - Additional Information****Gene ID** 84433**Other Names**

Caspase recruitment domain-containing protein 11, CARD-containing MAGUK protein 1, Carma 1, CARD11, CARMA1

**Target/Specificity**

Human CARD11.

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

CARMA1 / CARD11 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**CARMA1 / CARD11 Antibody (C-Terminus) - Protein Information****Name** CARD11 {ECO:0000303|PubMed:11278692, ECO:0000312|HGNC:HGNC:16393}**Function**

Adapter protein that plays a key role in adaptive immune response by transducing the activation of NF-kappa-B downstream of T- cell receptor (TCR) and B-cell receptor (BCR) engagement (PubMed:<a href="http://www.uniprot.org/citations/11278692" target="\_blank">11278692</a>, PubMed:<a href="http://www.uniprot.org/citations/11356195" target="\_blank">11356195</a>, PubMed:<a href="http://www.uniprot.org/citations/12356734" target="\_blank">12356734</a>). Transduces signals downstream TCR or BCR activation via the formation of a multiprotein complex together with BCL10 and MALT1 that induces NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways (PubMed:<a href="http://www.uniprot.org/citations/11356195" target="\_blank">11356195</a>). Upon activation in response to TCR or BCR triggering, CARD11 homooligomerizes to form a nucleating helical template that recruits BCL10 via CARD-CARD interaction, thereby promoting polymerization of BCL10 and subsequent recruitment of MALT1: this leads to I-kappa-B kinase (IKK) phosphorylation and degradation, and release of NF-kappa-B

proteins for nuclear translocation (PubMed:<a href="http://www.uniprot.org/citations/24074955" target="\_blank">24074955</a>). Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner (PubMed:<a href="http://www.uniprot.org/citations/17287217" target="\_blank">17287217</a>). Promotes linear ubiquitination of BCL10 by promoting the targeting of BCL10 to RNF31/HOIP (PubMed:<a href="http://www.uniprot.org/citations/27777308" target="\_blank">27777308</a>). Stimulates the phosphorylation of BCL10 (PubMed:<a href="http://www.uniprot.org/citations/11356195" target="\_blank">11356195</a>). Also activates the TORC1 signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/28628108" target="\_blank">28628108</a>).

#### Cellular Location

Cytoplasm. Membrane raft. Note=Colocalized with DPP4 in membrane rafts.

#### Tissue Location

Detected in adult peripheral blood leukocytes, thymus, spleen and liver. Also found in promyelocytic leukemia HL-60 cells, chronic myelogenous leukemia K-562 cells, Burkitt's lymphoma Raji cells and colorectal adenocarcinoma SW480 cells. Not detected in HeLaS3, MOLT-4, A-549 and G431 cells.

### CARMA1 / CARD11 Antibody (C-Terminus) - Protocols

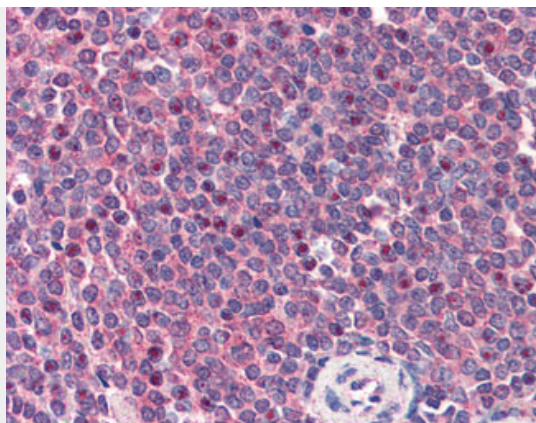
Provided below are standard protocols that you may find useful for product applications.

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

### CARMA1 / CARD11 Antibody (C-Terminus) - Images



Antibody staining (1 ug/ml) of human Jurkat cells (RIPA buffer, 35 ug total protein per lane).



Anti-CARD11 antibody IHC of human spleen.

### **CARMA1 / CARD11 Antibody (C-Terminus) - Background**

Involved in the costimulatory signal essential for T- cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Activates NF-kappa-B via BCL10 and IKK. Stimulates the phosphorylation of BCL10.

### **CARMA1 / CARD11 Antibody (C-Terminus) - References**

- Bertin J.,et al.J. Biol. Chem. 276:11877-11882(2001).  
Hillier L.W.,et al.Nature 424:157-164(2003).  
Scherer S.W.,et al.Science 300:767-772(2003).  
Gaide O.,et al.FEBS Lett. 496:121-127(2001).  
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