

## Anti-CARMA1 CARD11 Antibody

Catalog Number: A00740

### Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

### Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is  $\leq 0.5\mu\text{g}$  per  $1 \times 10^6$  cells in  $100\mu\text{l}$  of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

### About CARD11

CARMA proteins belong to the membrane-associated guanylate kinase-like (MAGUK) family of proteins that can function as molecular scaffolds that assist assembly of signal transduction molecules. CARMA1, CARMA2, and CARMA3 share high degrees of sequence and functional homology, but their tissue-specific distribution suggests that they serve distinct biological functions in different cell types. Both CARMA1 and CARMA3 associate with NEMO, the regulatory subunit of the IkkappaK complex, thereby regulating activation of the NF-kappaB transcription factor. Also, gene inactivation studies showed a complete block in T and B cell immunity as well as an impaired response to LPS, indicating that CARMA1 is a critical regulator in both the adaptive and innate immune systems.

### Overview

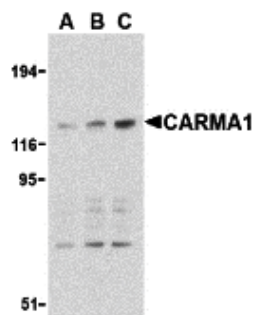
Product Name	Anti-CARMA1 CARD11 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-CARMA1 CARD11 Antibody (Catalog # A00740). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Conjugate	Biotin
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal SK7
Formulation	CARMA1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	CARMA1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid

	repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9BXL7

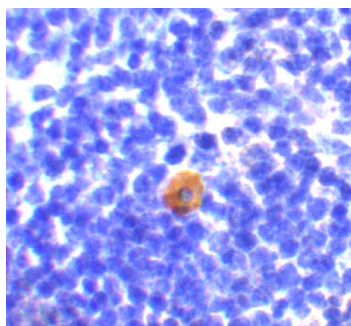
## Technical Details

Immunogen	CARMA1 antibody was raised against a synthetic peptide corresponding to amino acids at the C-terminus of human CARMA1. The immunogen is located within the last 50 amino acids of CARMA1.
Predicted Reactive Species	Rabbit
Cross Reactivity	ROCK1 antibody is predicted to not cross-react with other ROCK protein family members.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CARMA1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>CARMA1 antibody can be used for detection of CARMA1 by Western blot at 0.5 to 2 ug/mL. A band at approximately 125 kDa can be detected. Antibody can also be used for immunohistochemistry starting at 10 ug/mL. For immunofluorescence start at 20 ug/mL.</p> <p>Antibody validated: Western Blot in mouse samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

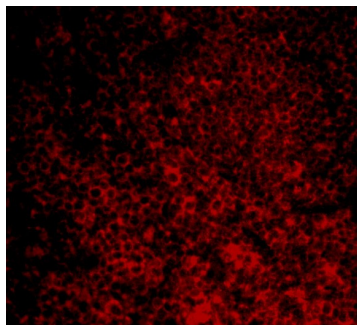
## Anti-CARMA1 CARD11 Antibody (A00740) Images



Western blot analysis of CARMA1 expression in mouse thymus cell lysate with CARMA1 antibody at 0.5 (lane A)



Immunohistochemistry of CARMA1 in mouse thymus with CARMA1 antibody at 10 ug/mL.



Immunofluorescence of CARMA1 in Mouse Spleen cells with CARMA1 antibody at 20 ug/mL.

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