

Datasheet for 600-401-AB8**CARMA1 Antibody****Overview**

Description:	Anti-CARMA1 (RABBIT) Antibody - 600-401-AB8
Item No.:	600-401-AB8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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 IκK complex, thereby regulating activation of the NF-κB 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.
Synonyms:	CARMA1 Antibody, PPBL, BENTA, BIMP3, IMD11, CARMA1, Caspase recruitment domain-containing protein 11, CARD-containing MAGUK protein 1, Carma 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CARD11
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-CARMA1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids at the C-terminus of human CARMA1.
Purity/Specificity:	Anti-CARMA1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with CARMA1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9BXL7 • GeneID - 84433 • NCBI - NP_001311210.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-CARMA1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 133 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:20,000
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	0.5-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

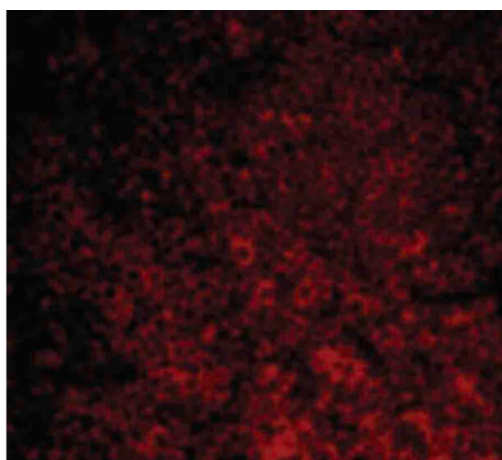
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

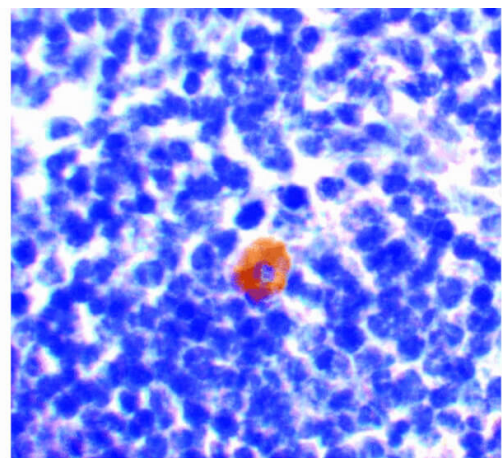
Expiration: Expiration date is one (1) year from date of receipt.

Images



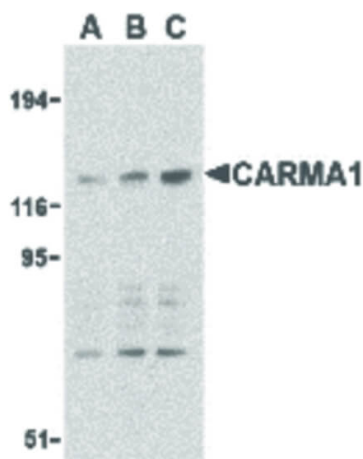
Immunofluorescence Microscopy

Immunofluorescence Microscopy of CARMA1 antibody. Cell Type: mouse spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: CARMA1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CARMA1 is located in the cytoplasm and membrane raft. Staining: CARMA1 as red fluorescent signal.



Immunohistochemistry

Immunohistochemistry of CARMA1 antibody. Tissue: mouse thymus. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: CARMA1 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CARMA1 is located in the cytoplasm and membrane raft. Staining: CARMA1 is stained with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of CARMA1 antibody. Lane A: mouse thymus cell lysate at 0.5 µg/ml. Lane B: mouse thymus cell lysate at 1 µg/ml. Lane C: mouse thymus cell lysate at 2 µg/ml. Load: 35 µg per lane. Primary antibody: CARMA1 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 133 kDa, 130 kDa for CARMA1. Other band(s): CARMA1 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.