



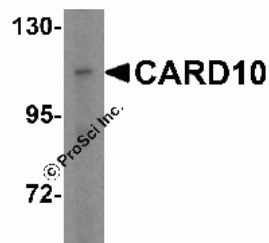
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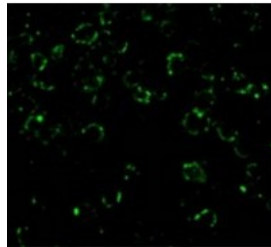
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## CARD10 Antibody

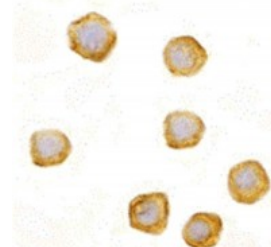
CATALOG NUMBER: 3013



Western blot analysis of CARD10 in A-20 cell lysate with CARD10 antibody at 5 ug/mL.



Immunofluorescence of CARD10 in EL4 cells with CARD10 antibody at 20 ug/mL.



Immunocytochemistry of CARD10 in EL4 cells with CARD10 antibody at 10 ug/mL.

### Specifications

**SPECIES REACTIVITY:** Human, Mouse

**TESTED APPLICATIONS:** ELISA, ICC, IF, WB

**APPLICATIONS:** CARD10 antibody can be used for detection of CARD10 by Western blot at 5 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in mouse samples; Immunocytochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.

**USER NOTE:** Optimal dilutions for each application to be determined by the researcher.

**POSITIVE CONTROL:**  
1) Cat. No. 1287 - EL4 Cell Lysate  
2) Cat. No. 1288 - A20 Cell Lysate  
3) Cat. No. 17-207 - EL4 Cell Slide

**PREDICTED MOLECULAR WEIGHT:**  
Predicted: 116 kDa  
Observed: 115 kDa

**IMMUNOGEN:** CARD10 antibody was raised against a synthetic peptide corresponding to 14 amino acids at the C-terminus of human CARD10.

The immunogen is located within the last 50 amino acids of CARD10.

**HOST SPECIES:** Rabbit

### Properties

**PURIFICATION:** CARD10 Antibody is immunoaffinity purified .

**PHYSICAL STATE:** Liquid

**BUFFER:** CARD10 Antibody is supplied in PBS containing 0.02% sodium azide.

**CONCENTRATION:** 1 mg/mL

**STORAGE CONDITIONS:** CARD10 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all

antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

<b>CLONALITY:</b>	Polyclonal
<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated

#### Additional Info

<b>ALTERNATE NAMES:</b>	CARD10 Antibody: BIMP1, CARMA3, Caspase recruitment domain-containing protein 10, CARD-containing MAGUK protein 3, Carma 3
<b>ACCESSION NO.:</b>	AAK26165
<b>PROTEIN GI NO.:</b>	13488607
<b>OFFICIAL SYMBOL:</b>	CARD10
<b>GENE ID:</b>	29775

#### Background

**BACKGROUND:** CARD10 Antibody: Apoptosis is related to many diseases and development. Cell death signals are transduced by death domain (DD), death effector domain (DED), and caspase recruitment domain (CARD) containing molecules. CARD containing proteins include some caspases, Apaf-1, CARD4, IAPs, RICK, ARC, RAIDD, Bcl-10, and ASC. A novel CARD-containing protein was recently identified and designated CARD10. This protein belongs to the membrane-associated guanylate kinase-like (MAGUK) family of proteins that can function as molecular scaffolds that assist assembly of signal transduction molecules. CARD 10 interacts with Bcl-10, a Bcl protein that promotes apoptosis, caspase-9 maturation and activation of NF- $\kappa$ B. CARD 10 and the related protein CARMA1 also associate with NEMO, the regulatory subunit of the I $\kappa$ B complex, demonstrating its importance in the regulation of NF- $\kappa$ B transcription factor activation.

<b>REFERENCES:</b>	1) Wang L, Guo Y, Huang W-J, et al. CARD10 is a novel caspase recruitment domain/membrane-associated guanylate kinase family member that interacts with BCL10 and activates NF-kappaB. <i>J. Biol. Chem.</i> 2001; 276:21405-9.
	2) Fanning AS and Anderson JM. Protein modules as organizers of membrane structure. <i>Curr. Opin. Cell Biol.</i> 1999; 11:432-9.
	3) Fischer KD, Tedford K, Wirth T. New roles for Bcl10 in B-cell development and LPS response. <i>Trends Immunol.</i> 2004; 25:113-6.
	4) Stilo R, Liguoro D, Di Jeso B, et al. Physical and functional interaction of CARMA1 and CARMA3 with I kappa kinase kappa-NF-kappaB essential modulator. <i>J. Biol. Chem.</i> 2004; 279:34323-31.

**FOR RESEARCH USE ONLY**

January 11, 2019