

**CARD10 Antibody**  
**Catalog # ASC10164****Specification**

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**CARD10 Antibody - Product Information**

Application	ICC
Primary Accession	<a href="#">Q9BWT7</a>
Other Accession	<a href="#">AAK26165</a> , <a href="#">29775</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	CARD10 antibody can be used for detection of CARD10 by Western blot at 5 µg/mL. Antibody can also be used for immunocytochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.

**CARD10 Antibody - Additional Information**Gene ID **29775****Other Names**

CARD10 Antibody: BIMP1, CARMA3, Caspase recruitment domain-containing protein 10,  
CARD-containing MAGUK protein 3, Carma 3, caspase recruitment domain family, member 10

**Target/Specificity**

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.

**Reconstitution & Storage**

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.

**Precautions**

CARD10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CARD10 Antibody - Protein Information****Name** CARD10**Synonyms** CARMA3**Function**

Scaffold protein that plays an important role in mediating the activation of NF-kappa-B via BCL10 or EGFR.

**Cellular Location**

Cytoplasm.

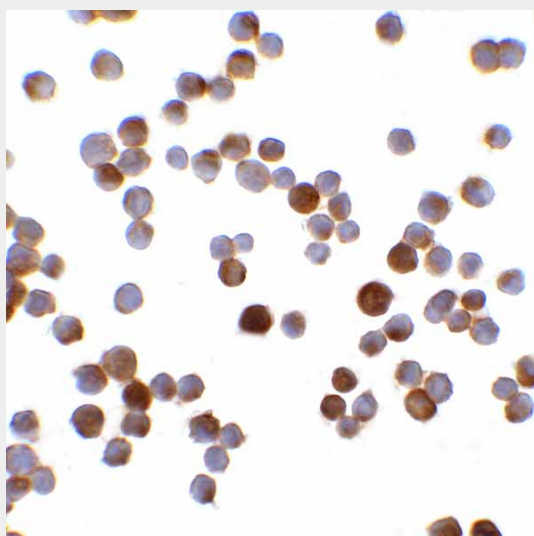
**Tissue Location**

Detected in adult heart, kidney and liver; lower levels in intestine, placenta, muscle and lung. Also found in fetal lung, liver and kidney

**CARD10 Antibody - 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](#)

**CARD10 Antibody - Images**

Immunocytochemistry of MAGEA4 in HeLa cells with MAGEA4 antibody at 5 µg/ml.

**CARD10 Antibody - 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-κB. CARD 10 and the related protein CARMA1 also associate with NEMO, the regulatory subunit of the IκK complex, demonstrating its importance in the regulation of NF-κB transcription factor activation.

## **CARD10 Antibody - References**

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. J. Biol. Chem. 2001; 276:21405-9.

Fanning AS and Anderson JM. Protein modules as organizers of membrane structure. Curr. Opin. Cell Biol. 1999; 11:432-9.

Fischer KD, Tedford K, Wirth T. New roles for Bcl10 in B-cell development and LPS response. Trends Immunol. 2004; 25:113-6.

Stilo R, Liguoro D, Di Jeso B, et al. Physical and functional interaction of CARMA1 and CARMA3 with Ikappa kinase kappa-NF-kappaB essential modulator. J. Biol. Chem. 2004; 279:34323-31.