

CARD10 Antibody

Catalog # ASC10164

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q9BWT7
Other Accession	AAK26165 , 13488607
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	115931
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CARD10 antibody can be used for detection of CARD10 by Western blot at 5 - 10 μ g/mL. Antibody can also be used for immunocytochemistry starting at 10 μ g/mL. For immunofluorescence start at 20 μ g/mL.

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;
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.

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

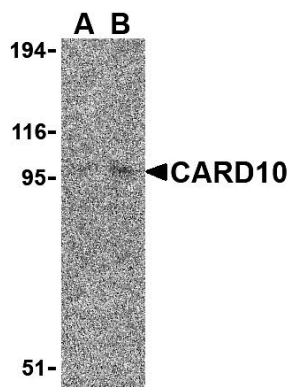
Background

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- κ B. CARD 10 and the related protein CARMA1 also associate with NEMO, the regulatory subunit of the I κ K complex, demonstrating its importance in the regulation of NF- κ B transcription factor activation.

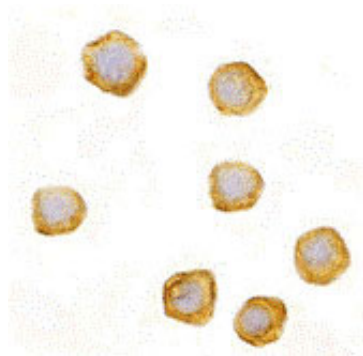
References

- 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.

Images

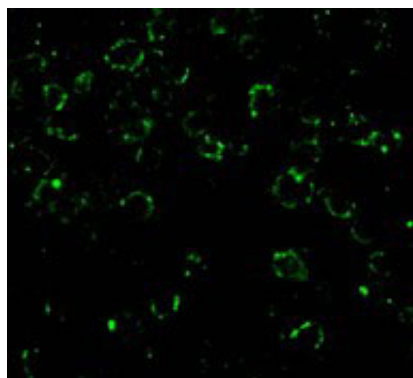


Western blot analysis of CARD10 expression in EL4 cell lysate with CARD10 antibody at (A) 5 and (B) 10 µg/ml.



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

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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.