

# CARD 11 (H-300): sc-48737

## BACKGROUND

Modular protein interaction domains are an evolutionarily conserved protein contour feature in tertiary and quaternary protein folding that gives rise to a dynamic protein signaling network by mediating the assembly of encoded components into specific signaling complexes. Caspase-associated recruitment domain (CARD) proteins CARD 11 and CARD 14 are members of the membrane-associated guanylate kinase (MAGUK) family, a class of proteins that function as molecular scaffolds for the assembly of multiprotein complexes at the plasma membrane. The human CARD 11 gene maps to chromosome 7p22 and encodes a 1147 amino acid protein. The human CARD 14 gene maps to chromosome 17q25 and encodes a 1004 amino acid protein. CARD 11 and CARD 14 can function as components of signaling pathways that lead to activation of the transcription factor NFκB. The CARD domains of CARD 11 and CARD 14 can specifically interact with Bcl-10, a protein known to function as a positive regulator of cell apoptosis and NFκB activation.

## REFERENCES

1. Inohara, N., et al. 1999. Nod1, an Apaf-1-like activator of caspase-9 and NFκB. *J. Biol. Chem.* 274: 14560-14567.
2. LocusLink Report (LocusID: 84433). <http://www.ncbi.nlm.nih.gov/LocusLink/>

## CHROMOSOMAL LOCATION

Genetic locus: CARD11 (human) mapping to 7p22; Card11 (mouse) mapping to 5 G2.

## SOURCE

CARD 11 (H-300) is a rabbit polyclonal antibody raised against amino acids 848-1147 mapping at the C-terminus of CARD 11 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

CARD 11 (H-300) is recommended for detection of CARD 11 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CARD 11 (H-300) is also recommended for detection of CARD 11 in additional species, including canine and bovine.

Suitable for use as control antibody for CARD 11 siRNA (h): sc-41994, CARD 11 siRNA (m): sc-44937, CARD 11 shRNA Plasmid (h): sc-41994-SH, CARD 11 shRNA Plasmid (m): sc-44937-SH, CARD 11 shRNA (h) Lentiviral Particles: sc-41994-V and CARD 11 shRNA (m) Lentiviral Particles: sc-44937-V.

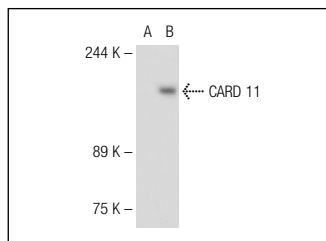
Molecular Weight of CARD 11: 133 kDa.

Positive Controls: CARD 11 (m): 293T Lysate: sc-118999.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



CARD 11 (H-300): sc-48737. Western blot analysis of CARD 11 expression in non-transfected: sc-117752 (A) and mouse CARD 11 transfected: sc-118999 (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

1. Palkowitsch, L., et al. 2011. The Ca<sup>2+</sup>-dependent phosphatase calcineurin controls the formation of the Carma1-Bcl10-Malt1 complex during T cell receptor-induced NFκB activation. *J. Biol. Chem.* 286: 7522-7534.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Satisfaction  
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Try **CARD 11 (A-4): sc-166910**, our highly recommended monoclonal alternative to CARD 11 (H-300).