BACKGROUND
Membrane-associated guanylate kinase (MAGUK) family members function as molecular scaffolds for the assembly of multiprotein complexes localizing to the plasma membrane. Several mammalian proteins related to the *Drosophila* tumor suppressor discs-large (dlg) gene product belong to the MAGUK family, including the caspase recruitment domain (CARD) protein family with the exception of CARD 9. The CARD domain consists of six or seven antiparallel α helices. CARD family members participate in apoptosis signaling through highly specific protein-protein homophilic interactions. CARD 10 (also designated CARD-containing MAGUK protein 3 or Carma 3) interacts with Bcl10 to activate NFκB. CARD 10 is expressed in a variety of adult and fetal tissues, including heart, kidney and liver, and in multiple cancer cell lines.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: CARD10 (human) mapping to 22q13.1; Card10 (mouse) mapping to 15 E1.

SOURCE
CARD 10 (B-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 857-877 near the C-terminus of CARD 10 of human origin.

PRODUCT
Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Blocking peptide available for competition studies, sc-271849 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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

APPLICATIONS
CARD 10 (B-4) is recommended for detection of CARD 10 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 10 (B-4) is also recommended for detection of CARD 10 in additional species, including porcine.

Suitable for use as control antibody for CARD 10 siRNA (h): sc-60326, CARD 10 siRNA (m): sc-60327, CARD 10 shRNA Plasmid (h): sc-60326-SH, CARD 10 shRNA Plasmid (m): sc-60327-SH, CARD 10 shRNA (h) Lentiviral Particles: sc-60326-V and CARD 10 shRNA (m) Lentiviral Particles: sc-60327-V.

Molecular Weight of CARD 10: 116 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210 or U-87 MG cell lysate: sc-2411.

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RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 mg agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-358850.

DATA

SELECT PRODUCT CITATIONS

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