

CARD 8 (K-18): sc-68156

BACKGROUND

Membrane-associated guanylate kinase (MAGUK) family members localize to the plasma membrane and function as molecular scaffolds for the assembly of multi-protein complexes. The MAGUK family includes several mammalian proteins, >such as postsynaptic proteins, GKAPs, the tight junction associated proteins (ZO-1-3), and the caspase-associated recruitment domain (CARD) proteins, all of which are related to the *Drosophila* tumor >suppressor disc-large (dlg) gene product. CARD 8, also designated >DACAR, NDPP1, TUCAN or CARDINAL, is a 431 amino acid protein that is expressed in the lung, ovary, testis and placenta. It regulates cellular responses controlled by NFκB activation and may play a key role in apoptosis and >chronic inflammatory disorders. CARD 8 binds to caspase-1 and negatively regulates its activity. CARD 8 interact with IKKγ and FHL-2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CARD8 (human) mapping to 19q13.32.

SOURCE

CARD 8 (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CARD 8 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.

Blocking peptide available for competition studies, sc-68156 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CARD 8 (K-18) is recommended for detection of CARD 8 isoforms 1, 2 and 3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for CARD 8 siRNA (h): sc-105180, CARD 8 shRNA Plasmid (h): sc-105180-SH and CARD 8 shRNA (h) Lenti-viral Particles: sc-105180-V.

Molecular Weight of CARD 8: 49 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.

MONOS
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Try **CARD 8 (2108C2a): sc-81213**, our highly recommended monoclonal alternative to CARD 8 (K-18).