

ORDERING INFORMATION

Catalog Number: AF5248

Lot Number: CBUD01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human CARD9

Immunogen: *E. coli*-derived rhCARD9 (aa 225 - 359)

Ig Type: sheep IgG

Applications: Western blot
Direct ELISA

Background

CARD9 (caspase recruitment domain-containing protein 9) is a 70 kDa member of the CARD module family of proteins. It is expressed in myeloid lineage cells such as macrophages, neutrophils and dendritic cells and mediates activation of p38 and Jnk, as well as NF-κB by interacting with BCL10 and MALT1 in a PKC-independent manner. Human CARD9 is 536 amino acids (aa) in length. It contains one CARD domain (aa 6 - 98), two coiled-coil regions (aa 117 - 277 and 332 - 419) and a phosphorylation site at Ser460. CARD9 dimerizes with itself and BCL10. Multiple potential splice variants are noted for CARD9. There are 35 aa and 39 aa substitutions for aa 479 - 536, a seven aa substitution for aa 360 - 536 and an eleven aa substitution for aa 482 - 536. Over aa 9 - 256, human CARD9 is 88% aa identical to mouse CARD9.

Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human CARD9 (rhCARD9; aa 225 - 359; Accession # Q9H257). Human CARD9 specific IgG was purified by human CARD9 affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

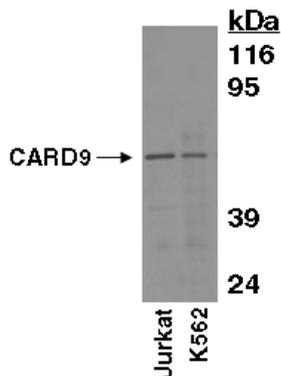
This antibody has been selected for its ability to recognize human CARD9 in direct ELISAs and Western blots. In this format, this antibody shows less than 5% cross-reactivity with rhCARD6, rhCARD8, rhCARD11, rhCARD14 and rhCARD10.

Applications

Western blot - An antibody concentration of 1.0 µg/mL is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human CARD9. The detection limit for rhCARD9 is approximately 0.2 ng/well.

Optimal dilutions should be determined by each laboratory for each application.



Detection of CARD9 with AF5248.

Cell lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 µg/mL sheep anti-hCARD9.