

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CARD9 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human (rh) CARD6, rhCARD8, rhCARD11, rhCARD14, and rhCARD10 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CARD9 Lys225-Gln359 Accession # Q9H257
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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