

ARG54436 anti-CARD9 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CARD9
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Specificity	This antibody recognizes human CARD9, a novel CARD (Caspase Recruitment Domain)-containing protein that interacts with the CARD activation domain of Bcl-10. CARD9 associates with Bcl-10 to form a complex within cells. CARD9 induces apoptosis and activates NF- B.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CARD9
Species	Human
Immunogen	Peptide corresponding to aa 521-536 of human CARD9 (accession no. AF31187). This sequence differs from that of rat CARD9 by two amino acids.
Conjugation	Un-conjugated
Alternate Names	CANDF2; hCARD9; Caspase recruitment domain-containing protein 9

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	MB-361, PC-3 and K562	

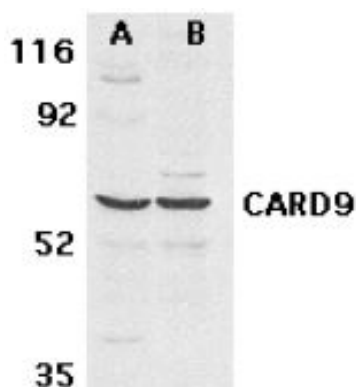
Properties

Form	Liquid
Purification	Immunoaffinity chroma-tography
Buffer	PBS (pH 7.4) and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

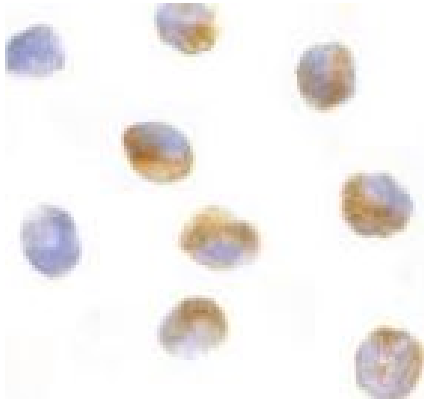
Database links	GeneID: 64170 Human Swiss-port # Q9H257 Human
Gene Symbol	CARD9
Gene Full Name	caspase recruitment domain family, member 9
Background	<p>The protein encoded by this gene is a member of the CARD protein family, which is defined by the presence of a characteristic caspase-associated recruitment domain (CARD). CARD is a protein interaction domain known to participate in activation or suppression of CARD containing members of the caspase family, and thus plays an important regulatory role in cell apoptosis. This protein was identified by its selective association with the CARD domain of BCL10, a positive regulator of apoptosis and NF-kappaB activation, and is thought to function as a molecular scaffold for the assembly of a BCL10 signaling complex that activates NF-kappaB. Several alternatively spliced transcript variants have been observed, but their full-length nature is not clearly defined. [provided by RefSeq, Jul 2008]</p>
Function	<p>Adapter protein that plays a key role in innate immune response to a number of intracellular pathogens, such as C.albicans and L.monocytogenes. Is at the crossroads of ITAM-tyrosine kinase and the Toll-like receptors (TLR) and NOD2 signaling pathways. Probably controls various innate immune response pathways depending on the intracellular pathogen. In response to L.monocytogenes infection, acts by connecting NOD2 recognition of peptidoglycan to downstream activation of MAP kinases (MAPK) without activating NF-kappa-B. Also involved in activation of myeloid cells via classical ITAM-associated receptors and TLR: required for TLR-mediated activation of MAPK, while it is not required for TLR-induced activation of NF-kappa-B (By similarity). Controls CLEC7A (dectin-1)-mediated myeloid cell activation induced by the yeast cell wall component zymosan, leading to cytokine production and innate anti-fungal immunity: acts by regulating BCL10-MALT1-mediated NF-kappa-B activation pathway. Activates NF-kappa-B via BCL10. In response to the hyphal form of C.albicans, mediates CLEC6A (dectin-2)-induced I-kappa-B kinase ubiquitination, leading to NF-kappa-B activation via interaction with BCL10. In response to fungal infection, may be required for the development and subsequent differentiation of interleukin 17-producing T helper (TH-17) cells. [UniProt]</p>
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody
Calculated Mw	62 kDa
PTM	Phosphorylated at Thr-531 and Thr-533 by CK2 following interaction with VHL, leading to inhibit the ability to activate NF-kappa-B.

Images



ARG54436 anti-CARD9 antibody WB image

Western Blot: A:MDA-MB-361; B:PC-3 stained with ARG54436 anti-CARD9 antibody at 2.5 µg/ml dilution.



ARG54436 anti-CARD9 antibody ICC/IF image

Immunofluorescence: K562 stained with ARG54436 anti-CARD9 antibody at 10 µg/ml dilution.