

#4440 Store at -20°C

CARD11 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	130	Rabbit	#Q9BXL7	84433

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	CARD11 Antibody detects endogenous levels of total CARD11 protein. Cross-reactivity was not detected with other family members at physiological conditions.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding methionine 362 of human CARD11. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	CARD11/Carma1/Bimp3 belongs to the MAGUK (membrane-associated guanylate kinase) family that typically function as molecular scaffolds in the assembly of multiprotein complexes (1,2). MAGUK family members contain an SH3 domain, a PDZ domain and a GuK domain homologous to guanylate kinase. In addition, CARD11 contains an amino-terminal CARD domain (caspase recruitment domain). This domain plays an important role in forming interactions with a number of proteins containing CARD domains that are involved in regulating apoptosis and NF-κB activation. CARD11 is predominately expressed in lymphocytes (1,2) and associates with the CARD domain of Bcl10. When overexpressed, CARD11 leads to the phosphorylation of Bcl10 and activation of NF-κB (1,2). CARD11 is constitutively associated with lipid rafts and is thought to function by recruiting Bcl10 and MAL1 and triggering the phosphorylation of IKKs (3,4). Several studies using the genetic disruption of CARD11 or dominant-negative mutations have demonstrated that it plays a critical role in NF-κB activation and lymphocyte signaling (4-7).	
Background References	<ol style="list-style-type: none"> Bertin, J. et al. (2001) <i>J. Biol. Chem.</i> 276, 11877–11882. Gaide, O. et al. (2001) <i>FEBS Lett.</i> 496, 121-127. Stilo, R. et al. (2004) <i>J. Biol. Chem.</i> 279, 34323-34331. Wang, D. et al. (2002) <i>Nat. Immunol.</i> 3, 830-835. Jun, J.E. et al. (2003) <i>Immunity</i> 18, 751-762. Hara, H. et al. (2003) <i>Immunity</i> 18, 763-775. Gaide, O. et al. (2002) <i>Nat. Immunol.</i> 3, 836-843. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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