## **CARD11 Antibody**



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q9BXL7	Entrez-Gene Id: 84433
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 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 MALT1 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 Re	eferences	1. Bertin, J. et al. (2001) <i>J. Biol. Chem.</i> 276, 11877–11882. 2. Gaide, O. et al. (2001) <i>FEBS Lett.</i> 496, 121-127. 3. Stilo, R. et al. (2004) <i>J. Biol. Chem.</i> 279, 34323-34331. 4. Wang, D. et al. (2002) <i>Nat. Immunol.</i> 3, 830-835. 5. Jun, J.E. et al. (2003) <i>Immunity</i> 18, 751-762. 6. Hara, H. et al. (2003) <i>Immunity</i> 18, 763-775. 7. Gaide, O. et al. (2002) <i>Nat. Immunol.</i> 3, 836-843.				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffor	IMPORTANT: For wort	orn blots incubato	membrane with diluted	nrimany antihody i	n 506 w/v DSA 1V

**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

W: Western Blotting

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat

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