## MyD88 Antibody Image: Cell Signaling tell (2355) Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: Web: info@cellsignal.com cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: W	<b>Reactivity:</b> H Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 33	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q99836	Entrez-Gene Id: 4615	
Product Usage Information		Application 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		MyD88 Antibody detects endogenous levels of total MyD88 protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding lysine 119 of human MyD88. Antibodies were purified by protein A and peptide affinity chromatography.					
Background		play a pivotal role in ir pathogens and media of NF-κB and subsequ the IL-1 receptor famil Toll/Interleukin-1 rece cytoplasmic adapter p (MyD88), MyD88-adap inducing IFN-β (TRIF), recruitment and activa IKK (8,11-14). Activatio inactive state by seque MyD88 was originally induced upon IL-6 stin contains an amino-ter functions as an adapted	nate immune resp te defense respons ent regulation of in ly share a conserve ptor (TIR) domain ( proteins containing oter-like/TIR-associa and Toll-receptor-a ation of IRAK1 and on of IKK leads to th estering it in the cy isolated as a myelo nulated differentiat minal death domai or in TLR/IL-1 recep	mily, named for the clos onses (1-4). TLRs recogn es (5-7). Triggering of th nmune and inflammator d stretch of approximator the protein (MAL/TIRAP ssociated molecule (TRA (RAK4, which form a con- e degradation of IkB, wi coplasm. id differentiation primar- ion of M1 myeloleukem n separated from a carb tor signaling (18). The d ering a signaling cascado	ize conserved moti the TLR pathway lead by genes (4). The TL ely 200 amino acids a associate with a n myeloid differentiat ), TIR domain-conta M) (8-10). This asso nplex with TRAF6 to hich normally main by response gene th ic cells into macrop toxyl-terminal TIR d eath domain of My	rfs found in various ds to the activation Rs and members of the members of the members of the member of the factor 88 the member of the factor 88 the member of the factor 88 the member of the member of the member of the member of the member of the member of the member of the member of the member of the member of the member of the member of the membe	
Background References		<ol> <li>Akira, S. (2003) <i>J Biol Chem</i> 278, 38105-8.</li> <li>Beutler, B. (2004) <i>Nature</i> 430, 257-63.</li> <li>Dunne, A. and O'Neill, L.A. (2003) <i>Sci STKE</i> 2003, re3.</li> <li>Medzhitov, R. et al. (1997) <i>Nature</i> 388, 394-7.</li> <li>Schwandner, R. et al. (1999) <i>J Biol Chem</i> 274, 17406-9.</li> <li>Takeuchi, O. et al. (1999) <i>J Biol Chem</i> 274, 17406-9.</li> <li>Takeuopulou, L. et al. (2001) <i>Nature</i> 413, 732-8.</li> <li>Zhang, F.X. et al. (1999) <i>J Biol Chem</i> 274, 7611-4.</li> <li>Horng, T. et al. (2001) <i>Nat Immunol</i> 2, 835-41.</li> <li>Oshiumi, H. et al. (2003) <i>Nat Immunol</i> 4, 161-7.</li> <li>Muzio, M. et al. (1997) <i>Science</i> 278, 1612-5.</li> <li>Wesche, H. et al. (2002) <i>Nature</i> 416, 750-6.</li> <li>Irie, T. et al. (2000) <i>FEBS Lett</i> 467, 160-4.</li> <li>Harroch, S. et al. (1995) <i>Nucleic Acids Res.</i> 23, 3539-46.</li> <li>Hardiman, G. et al. (1997) <i>FEBS Lett</i>. 402, 81-4.</li> <li>Medzhitov, R. et al. (1997) <i>Immunity</i> 7, 837-47.</li> <li>Medzhitov, R. et al. (1997) <i>Science</i> 278, 1612-5.</li> </ol>					

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	W: Western Blotting			
Cross-Reactivity Key	H: Human Mk: Monkey			
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