Revision 1		
Phospho-IRAK4 (Thr345/Ser346) Antibody		Cell Signaling
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Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 55	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q9NWZ3	Entrez-Gene Id 51135	
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.					
pho		Phospho-IRAK4 (Thr345/Ser346) Antibody recognizes endogenous levels of IRAK4 protein only when phosphorylated at Thr345 and Ser346. The antibody may also react with single phosphorylation of IRAK4 at Ser346.					
Species predict based on 100% homology		Mouse, Rat, Monkey,	Bovine, Dog				
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr345/Ser346 of human IRAK4 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		coprecipitated in an I molecules contains for receptor type I (IL-1R (2). IRAK undergoes a IRAK dissociation fron bound proteins: TAB2 cytoplasm where it ac kinases (3). Upon IL-1R/Toll-Like F	L-1-inducible mann- bur members (IRAK I) initiates the forma autophosphorylation m the IL-1RI comple 2 and TRAF6. The res ctivates protein kina Receptor ligation, IR RAK1 is phosphoryla	inase (IRAK) is a serine/t er with the IL-1 receptor I, IRAK2, IRAK3/IRAK-M, ation of a complex that i n shortly after IL-1 stimu x, its ubiquitination, and sulting IRAK-TRAF6-TAB2 ise cascades, including T AK1 and IRAK4 are rapio ted by IRAK4 at Thr209 mains.	(1). The mammalia and IRAK4). The bir ncludes IL-1RI, ACP, lation. The subsequ i its association with complex is then rel AK1, IKKs, and the dly recruited to the	n family of IRAK ading of IL-1 to IL-1 MyD88, and IRAKs ient events involve a two membrane- leased into the stress-activated receptor by the	
Background Re	ferences	1. Dinarello, C.A. (1996) <i>Blood</i> 87, 2095-147. 2. Takaesu, G. et al. (2001) <i>Mol Cell Biol</i> 21, 2475-84. 3. Janssens, S. and Beyaert, R. (2003) <i>Mol Cell</i> 11, 293-302. 4. Gottipati, S. et al. (2008) <i>Cell Signal</i> 20, 269-76. 5. Kollewe, C. et al. (2004) <i>J Biol Chem</i> 279, 5227-36.					
Species Reactiv	/ity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer		ANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X % Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Ke	ey	W: Western Blotting					
Cross-Reactivit	y Key	H: Human					
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