e at -20C	IRAK2 Antibody	T E	Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
7		Support:	877-678-TECH (8324)	
#4367		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

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

	R Mk Endogenous	MW (kDa): 62	Source: Rabbit	UniProt ID: #O43187	Entrez-Gene Id: 3656			
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	IRAK2 Antibody detects other family members.	IRAK2 Antibody detects endogeneous levels of total IRAK2 protein. Cross-reactivity was not detected with other family members.						
Source / Purification	-	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxy terminus of mouse IRAK2. Antibodies were purified by protein A and peptide affinity chromatography.						
Background Background References	 coprecipitated in an IL-1 molecules contains four receptor type I (IL-1RI) ii (2). IRAK undergoes aut IRAK dissociation from t bound proteins: TAB2 ar cytoplasm where it activ kinases (3). Unlike IRAK1 and IRAKa activate NF-кB when ov mediated NF-кB activati 1. Dinarello, C.A. (1996) 2. Takaesu, G. et al. (200 3. Janssens, S. and Bey 4. Wesche, H. et al. (1997) 	 Interleukin-1 (IL-1) receptor-associated kinase (IRAK) is a serine/threonine-specific kinase that can be coprecipitated in an IL-1-inducible manner with the IL-1 receptor (1). The mammalian family of IRAK molecules contains four members (IRAK1, IRAK2, IRAK3/IRAK-M, and IRAK4). The binding of IL-1 to IL-1 receptor type I (IL-1RI) initiates the formation of a complex that includes IL-1RI, AcP, MyD88, and IRAKs (2). IRAK undergoes autophosphorylation shortly after IL-1 stimulation. The subsequent events involve IRAK dissociation from the IL-1RI complex, its ubiquitination, and its association with two membrane-bound proteins: TAB2 and TRAF6. The resulting IRAK-TRAF6-TAB2 complex is then released into the cytoplasm where it activates protein kinase cascades, including TAK1, IKKs, and the stress-activated kinases (3). Unlike IRAK1 and IRAK4, IRAK2 and IRAK-M do not have significant kinase activity although they can still activate NF-kB when overexpressed (4,5). Antisense oligonucleotide depletion of IRAK2 can inhibit IL-1 mediated NF-kB activation (6). Dinarello, C.A. (1996) <i>Blood</i> 87, 2095-147. Takaesu, G. et al. (2001) <i>Mol Cell Biol</i> 21, 2475-84. Janssens, S. and Beyaert, R. (2003) <i>Mol Cell</i> 11, 293-302. Wesche, H. et al. (1999) <i>J Biol Chem</i> 274, 19403-10. Muzio, M. et al. (1997) <i>Science</i> 278, 1612-5. Guo, F. et al. (1999) <i>Inflammation</i> 23, 535-43. 						
Species Reactivity	Species reactivity is dete	rmined by testing i	n at least one approv	ved application (e.g., we	estern 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	X: Xenopus Z: zebrafish	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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IRAK2 Antibody (#4367) Datasheet Without Images Cell Signaling Technology

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