4504

IRAK1 (D51G7) Rabbit mAb



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Applications: W, IP, FC-FP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 78-105	Source/Isotype: Rabbit IgG	UniProt ID: #P51617	Entrez-Gene Id: 3654
Product Usage Information	•	Application Western Blotting Immunoprecipitation Flow Cytometry (Fixed	/Permeabilized)		Dilution 1:1000 1:100 1:400 - 1	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA	and azide free) vers	sion of this product see	product #48222.	
Specificity/Sensitivity		IRAK1 (D51G7) Rabbit mAb detects endogenous levels of total IRAK1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxyl terminus of mouse IRAK1.				
Background		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).				
Background References		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.				
Species Reacti	vity	Species reactivity is de	termined by testing	ງ in at least one approve	ed 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 IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human M: Mouse Mk: Monkey				
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