Store at -200

IRAK1 (D51G7) Rabbit mAb



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Applications: WB, 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	Ар	Application			Dilution		
	We	estern Blotting			1:1000		
	Imr	munoprecipitation			1:100		
	Flo	Flow Cytometry (Fixed/Permeabilized)			1:400 - 1:1600		
Storage	0.02	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) version 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	copi moli rece (2). IRA bou	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					

Background References

- 1. Dinarello, C.A. (1996) Blood 87, 2095-147.
- 2. Takaesu, G. et al. (2001) Mol Cell Biol 21, 2475-84.
- 3. Janssens, S. and Beyaert, R. (2003) Mol Cell 11, 293-302.

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

WB: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

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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kinases (3).

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