Phospho-IRAK4 (Thr345/Ser346) (D6D7) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NWZ3	Entrez-Gene Id 51135	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting			1:1000		
	Imr	munoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens	whe	Phospho-IRAK4 (Thr345/Ser346) (D6D7) Rabbit mAb recognizes endogenous levels of IRAK4 protein when phosphorylated at Thr345 and Ser346. This antibody shows slight reactivity with IRAK4 when singly phosphorylated at Ser346. It does not cross-react with IRAK4 singly phosphorylated at Thr345.					
Species predicted react based on 10 sequence homolo	00%	ıse, Rat, Bovine, Do	og				
Source / Purificat		n Monoclonal antibody is produced by immu residues surrounding Thr345/Ser346 of hu			unizing animals with a synthetic phosphopeptide corresponding to uman IRAK4 protein.		
Background	coprecipitated in an IL-1-inducible manner molecules contains four members (IRAK1 receptor type I (IL-1RI) initiates the format (2). IRAK undergoes autophosphorylation IRAK dissociation from the IL-1RI complex				kinase (IRAK) is a serine/threonine-specific kinase that can be er with the IL-1 receptor (1). The mammalian family of IRAK .1, IRAK2, IRAK3/IRAK-M, and IRAK4). The binding of IL-1 to IL-1 ation of a complex that includes IL-1RI, AcP, MyD88, and IRAKs in shortly after IL-1 stimulation. The subsequent events involve ex, its ubiquitination, and its association with two membrane-resulting IRAK-TRAF6-TAB2 complex is then released into the		

cytoplasm where it activates protein kinase cascades, including TAK1, IKKs, and the stress-activated Upon IL-1R/Toll-Like Receptor ligation, IRAK1 and IRAK4 are rapidly recruited to the receptor by the adaptor MyD88 (4). IRAK1 is phosphorylated by IRAK4 at Thr209 and Thr387 (5), followed by sequential

Background References

- autohyperphosphorylation in various domains. 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.
- 4. Gottipati, S. et al. (2008) Cell Signal 20, 269-76.
- 5. Kollewe, C. et al. (2004) J Biol Chem 279, 5227-36.

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

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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