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

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

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NWX3	Entrez-Gene Id: 51135
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Product Usage Information	Application	Dilution
Storage	Flow Cytometry (Fixed/Permeabilized)	1:50
Specificity/Sensitivity	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Species predicted to react based on 100% sequence homology	Phospho-IRAK4 (Thr345/Ser346) (D6D7) Rabbit mAb (PE Conjugate) recognizes endogenous levels of IRAK4 protein only when phosphorylated at Thr345 and Ser346. This antibody does not react with singly phosphorylated proteins.	
Source / Purification	Mouse, Rat, Bovine, Dog	
Description	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr345/Ser346 of human IRAK4 protein.	
Background	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-IRAK4 (Thr345/Ser346) (D6D7) Rabbit mAb #11927.	
Background References	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).	
	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 Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human
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