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Phospho-IRAK4 (Thr345/Ser346) (D6D7) Rabbit mAb (Alexa Fluor® 488 Conjugate)

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

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NWZ3	Entrez-Gene Id: 51135
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	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 antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Phospho-IRAK4 (Thr345/Ser346) (D6D7) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of IRAK4 protein only when phosphorylated at Thr345 and Ser346. This antibody does not react with single phosphorylated proteins.	
Species predicted to react based on 100% sequence homology	Mouse, Rat, Bovine, Dog	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr345/Ser346 of human IRAK4 protein.	
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-IRAK4 (Thr345/Ser346) (D6D7) Rabbit mAb #11927.	
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	<ol style="list-style-type: none"> Dinareello, 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. 	

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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