## Phospho-Stat4 (Tyr693) (D2E4) Rabbit mAb (PE Conjugate)



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

<b>Applications:</b> FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q14765	Entrez-Gene Id: 6775
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/P	ermeabilized)		<b>Dilution</b> 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 antibodies. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-Stat4 (Tyr693) (D2E4) Rabbit mAb (PE Conjugate) recognizes endogenous levels of Stat4 protein only when phosphorylated at Tyr693.			
Species predicted based on 100% so homology	d to react equence	Mouse, Rat, Monkey, Pig			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr693 of human Stat4 protein.			
Description		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-Stat4 (Tyr693) (D2E4) Rabbit mAb #4134.			
The Jak-Stat signaling pathway is utilized by a large number of cytokines, growth factors, and hormones (1). Receptor-mediated tyrosine phosphorylation of Jak family members triggers phosphorylation of Stat proteins, resulting in their nuclear translocation, binding to specific DNA elements, and subsequent activation of transcription. The remarkable range and specificity of responses regulated by the Stats is determined, in part, by the tissue-specific expression of differ cytokine receptors, Jaks, and Stats, as well as by the combinatorial coupling of various Stat members of the spleen of the spleen of the spleen of Stat4 is associated as the mediator of IL-12 responses (3-8). Activation of Stat4 is associated as the mediator of IL-12 responses (3-8).					nily members triggers on, binding to specific DNA e range and specificity of specific expression of different upling of various Stat members to , thymus, and testis and has beer
Background References		1. Darnell, J.E. et al. (1994) <i>Science</i> 264, 1415-1421. 2. Leonard, W.J. and O'Shea, J.J. (1998) <i>Annu. Rev. Immunol.</i> 16, 293-322. 3. Zhong, Z. et al. (1994) <i>Proc. Natl. Acad. Sci. USA</i> 91, 4806-4810. 4. Yamamoto, K. et al. (1994) <i>Mol. Cell Biol.</i> 14, 4342-4349. 5. Jacobson, N.G. et al. (1995) <i>J. Exp. Med.</i> 181, 1755-1762. 6. Bacon, C.M. et al. (1995) <i>Proc. Natl. Acad. Sci. USA</i> 92, 7307-7311. 7. Thierfelder, W.E. et al. (1996) <i>Nature</i> 382, 171-174. 8. Kaplan, M.H. et al. (1996) <i>Nature</i> 382, 174-177. 9. Visconti, R. et al. (2000) <i>Blood</i> 96, 1844-52.			

**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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