

Store at +4°C
 #5387

Phospho-Stat5 (Tyr694) (C71E5) Rabbit mAb (PE Conjugate)


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

Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P42229, #P51692	Entrez-Gene Id: 6776, 6777
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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 antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	Phospho-Stat5 (Tyr694) (C71E5) Rabbit mAb (PE Conjugate) detects endogenous levels of Stat5a and Stat5b proteins when phosphorylated at Tyr694.	
Species predicted to react based on 100% sequence homology:	Rat, Bovine	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr694 of human Stat5a protein.	
Product 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-Stat5 (Tyr694) (C71E5) Rabbit mAb #9314.	
Background	Stat5 is activated in response to a wide variety of ligands, including IL-2, GM-CSF, growth hormone, and prolactin. Phosphorylation at Tyr694 is obligatory for Stat5 activation (1,2). This phosphorylation is mediated by Src upon erythropoietin stimulation (3). Stat5 is constitutively active in some leukemic cell types (4). Phosphorylated Stat5 is found in some endothelial cells treated with IL-3, which suggests its involvement in angiogenesis and cell motility (5). Stat5a and Stat5b are independently regulated and activated in various cell types. For instance, interferon treatment predominantly activates Stat5a in U-937 cells and Stat5b in HeLa cells (6).	
Background References	1. Gouilleux, F. et al. (1994) <i>EMBO J</i> 13, 4361-9. 2. Wakao, H. et al. (1994) <i>EMBO J</i> 13, 2182-91. 3. Okutani, Y. et al. (2001) <i>Oncogene</i> 20, 6643-50. 4. Demoulin, J.B. et al. (1999) <i>J Biol Chem</i> 274, 25855-61. 5. Dentelli, P. et al. (1999) <i>J Immunol</i> 163, 2151-9. 6. Meinke, A. et al. (1996) <i>Mol Cell Biol</i> 16, 6937-44.	
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 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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