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Phospho-Stat5 (Tyr694) (C71E5) Rabbit mAb (Alexa Fluor® 647 Conjugate)

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 antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Phospho-Stat5 (Tyr694) (C71E5) Rabbit mAb (Alexa Fluor® 647 Conjugate) detects endogenous levels of Stat5a only when phosphorylated at Tyr694 and Stat5b when phosphorylated at Tyr699.	
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 Stat5a. The antibody was conjugated to Alexa Fluor® 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor® 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor® 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.	
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometric analysis of human cells. CST expects that Phospho-Stat5 (Tyr694) (C71E5) Rabbit mAb (Alexa Fluor® 647 Conjugate) will display the same species cross-reactivity as the unconjugated antibody (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	<ol style="list-style-type: none"> Gouilleux, F. et al. (1994) <i>EMBO J</i> 13, 4361-9. Wakao, H. et al. (1994) <i>EMBO J</i> 13, 2182-91. Okutani, Y. et al. (2001) <i>Oncogene</i> 20, 6643-50. Demoulin, J.B. et al. (1999) <i>J Biol Chem</i> 274, 25855-61. Dentelli, P. et al. (1999) <i>J Immunol</i> 163, 2151-9. 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
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