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## Phospho-Stat5 (Tyr694) (D47E7) XP<sup>®</sup> Rabbit mAb (PE Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M	Endogenous	Rabbit IgG	#P42229, #P51692	6776, 6777

<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	Phospho-Stat5 (Tyr694) (D47E7) XP <sup>®</sup> Rabbit mAb (PE Conjugate) detects endogenous levels of Stat5a only when phosphorylated at Tyr694 and Stat5b when phosphorylated at Tyr699.	
<b>Species predicted to react based on 100% sequence homology</b>	Rat, Bovine	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr694 of human Stat5a protein.	
<b>Description</b>	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) (D47E7) XP <sup>®</sup> Rabbit mAb #4322.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Gouilleux, F. et al. (1994) <i>EMBO J</i> 13, 4361-9.</li> <li>Wakao, H. et al. (1994) <i>EMBO J</i> 13, 2182-91.</li> <li>Okutani, Y. et al. (2001) <i>Oncogene</i> 20, 6643-50.</li> <li>Demoulin, J.B. et al. (1999) <i>J Biol Chem</i> 274, 25855-61.</li> <li>Dentelli, P. et al. (1999) <i>J Immunol</i> 163, 2151-9.</li> <li>Meinke, A. et al. (1996) <i>Mol Cell Biol</i> 16, 6937-44.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse
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