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Phospho-Stat1 (Tyr701) (58D6) Rabbit mAb (PE Conjugate)

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M	Endogenous	Rabbit IgG	#P42224	6772
Product Usage Information	Application			Dilution	
	Flow Cytometry (Fixed/Permeabilized)			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-Stat1 (Tyr701) (58D6) Rabbit mAb (PE Conjugate) recognizes endogenous levels of Stat1 only when phosphorylated at Tyr701. The antibody detects phosphorylated Tyr701 of both Stat1 α and Stat1 β . It does not cross-react with the corresponding phospho-tyrosines of other Stat proteins.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr701 of human Stat1 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-Stat1 (Tyr701) (58D6) Rabbit mAb #9167.				
Background	The Stat1 transcription factor is activated in response to a large number of ligands (1) and is essential for responsiveness to IFN- α and IFN- γ (2,3). Phosphorylation of Stat1 at Tyr701 induces Stat1 dimerization, nuclear translocation, and DNA binding (4). Stat1 protein exists as a pair of isoforms, Stat1 α (91 kDa) and the splice variant Stat1 β (84 kDa). In most cells, both isoforms are activated by IFN- α , but only Stat1 α is activated by IFN- γ . The inappropriate activation of Stat1 occurs in many tumors (5). In addition to tyrosine phosphorylation, Stat1 is also phosphorylated at Ser727 through a p38 mitogen-activated protein kinase (MAPK)-dependent pathway in response to IFN- α and other cellular stresses (6). Serine phosphorylation may be required for the maximal induction of Stat1-mediated gene activation.				
Background References	<ol style="list-style-type: none"> 1. Heim, M.H. (1999) <i>J Recept Signal Transduct Res</i> 19, 75-120. 2. Durbin, J.E. et al. (1996) <i>Cell</i> 84, 443-50. 3. Meraz, M.A. et al. (1996) <i>Cell</i> 84, 431-42. 4. Ihle, J.N. et al. (1994) <i>Trends Biochem Sci</i> 19, 222-7. 5. Frank, D.A. (1999) <i>Mol Med</i> 5, 432-56. 6. Wen, Z. et al. (1995) <i>Cell</i> 82, 241-50. 				

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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