Phospho-Stat1 (Tyr701) (58D6) Rabbit mAb (Alexa Fluor® 488 Conjugate)



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Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P42224	Entrez-Gene Id: 6772
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		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-Stat1 (Tyr701) (58D6) Rabbit mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of Stat1 only when phosphorylated at Tyr701. The antibody detects phosphorylated Tyr701 of p91 Stat1 and also the p84 splice variant. 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. The antibody was conjugated to Alexa Fluor [®] 488 under optimal conditions with an F/P ratio of 2-6.			
Description		Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested inhouse for direct flow cytometric analysis of human cells. The unconjugated antibody, #9167, reacts with human, mouse and rat phospho-Stat1 protein. CST expects that Phospho-Stat1 (Tyr701) (58D6) Rabbit mAb (Alexa Fluor [®] 488 Conjugate) will also recognize phospho-Stat1 in these species.			
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		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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