Stat1 (D1K9Y) Rabbit mAb (PE Conjugate)



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

Information Flow Storage Supp	lication Cytometry (Fixed/Pe			
		ermeabilized)		Dilution 1:50
antin	olied in PBS (pH 7.2), body. Protect from lig		zide and 2 mg/ml BSA	. Store at 4°C. Do not aliquot the
	Stat1 (D1K9Y) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Stat1 protein. This antibody also cross-reacts with an unidentified protein of 150 kDa.			
	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro688 of human Stat1 protein.			
direc	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Stat1 (D1K9Y) Rabbit mAb #14994.			
for re dime Stat1 α, bu In ad activa (6). So	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 mitogenactivated 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.			
2. Du 3. Me 4. Ihl 5. Fra	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 R: Rat Mk: Monkey

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