2019 Phospho-Stat1 (Tyr701) (58D6) Rabbit mAb			BISIGNALING CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324)	
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6#			cellsignal.com	
For Research Use Only. Not for		Lane Danvers Ma	ssachusetts 01923 USA	
Applications: Reactive WB, W-S, IP, IHC-P, IF- H M IC, FC-FP, ChIP, ChIP- seq	ity: Sensitivity: MW (kDa): Source/Isotype:	UniProt ID: #P42224	Entrez-Gene Id: 6772	
Product Usage Information	For optimal ChIP and ChIP-seq results, use 5 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.			
	Application	Dilution		
	Western Blotting	1:1	1000	
	Simple Western™		10 - 1:50	
	Immunoprecipitation		.00 100 - 1:1600	
	Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry)		200 - 1:800	
	Flow Cytometry (Fixed/Permeabilized)		100 - 1:400	
	Chromatin IP		100	
	Chromatin IP-seq	1:1	100	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 10 0.02% sodium azide. Store at -20° C. Do not aliquot the antibo			
	For a carrier-free (BSA and azide free) version of this product	see product #88845.		
Specificity / Sensitivity	Phospho-Stat1 (Tyr701) (58D6) Rabbit mAb detects endogence at tyrosine 701. The antibody detects phosphorylated tyrosine variant. It does not cross-react with the corresponding phospho	lated tyrosine 701 of p91 Stat1 and also the p84 splice		
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr701 of human Stat1.			
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	 Heim, M.H. (1999) J Recept Signal Transduct Res 19, 75-12 Durbin, J.E. et al. (1996) Cell 84, 443-50. Meraz, M.A. et al. (1996) Cell 84, 431-42. Ihle, J.N. et al. (1994) Trends Biochem Sci 19, 222-7. Frank, D.A. (1999) Mol Med 5, 432-56. Wen, Z. et al. (1995) Cell 82, 241-50. 	.0.		
Species Reactivity	Species reactivity is determined by testing in at least one appro	ved application (e.g.,	western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key				

3/23/24, 10:39 AM	Phospho-Stat1 (Tyr701) (58D6) Rabbit mAb (#9167) Datasheet Without Images Cell Signaling Technology
	WB: Western Blotting W-S: Simple Western [™] IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq
Cross-Reactivity F	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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