Phospho-Stat1 (Ser727) (D3B7) Rabbit mAb



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Applications: WB, IP, IHC-P, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 91	Source/Isotype: Rabbit IgG	UniProt ID: #P42224	Entrez-Gene Id 6772	
Product Usage Information		For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10 ⁶ cells) per IP.					
	This	This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.					
	Ар	Application			Dilution		
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:100			
	Imr	munohistochemistry	(Paraffin)	1:400 - 1:1600			
	Ch	romatin IP		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #62390.					
Specificity / Sensit		Phospho-Stat1 (Ser727) (D3B7) Rabbit mAb recognizes endogenous levels of Stat1 protein or phosphorylated at Ser727.				rotein only when	
Species predicted treact based on 100 sequence homolog	%	ine					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser727 of human Stat1 protein.					
Background	resp nucl the : activ pho: (MA	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 Refere	2. D 3. M 4. Ih 5. Fı	 Heim, M.H. (1999) J Recept Signal Transduct Res 19, 75-120. 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. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) ChIP: Chromatin IP

Cross-Reactivity Key

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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