4911

Phospho-Stat3 (Ser727) (D4X3C) Rabbit



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Applications: W, IP, IF-IC, FC-FP, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 86	Source/Isotype: Rabbit IgG	UniProt ID: #P40763	Entrez-Gene Id: 6774
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 106 cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixed Chromatin IP	e (Immunocytochem	iistry)		Dilution 1:1000 1:200 1:800 1:50 1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
				sion of this product see		
Specificity/Sen	sitivity	Phospho-Stat3 (Ser727) (D4X3C) Rabbit mAb is recognizes endogenous levels of Stat3 protein only when phosphorylated at Ser727.				
Species predict based on 100% homology		Mouse, Rat				
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Ser727 of human Stat3 protein.				
Background		receptors (1) and is re is constitutively activa and anti-apoptotic ac dimerization, nuclear regulated by phospho expression appears to Stat3β (79 kDa) deper	equired for murine f ated in a number of tivities (3). Stat3 is a translocation, and prylation at Ser727 f o reflect biological f nd on cell type, ligar	tant signaling molecule etal development (2). Re human tumors (3,4) and ctivated by phosphoryla DNA binding (6,7). Transe through the MAPK or mT unction as the relative ex and exposure, or cell matu- site within the carboxy-te	search studies hav l possesses oncoge tion at Tyr705, whi criptional activation OR pathways (8,9). opression levels of uration stage (10). 1	e shown that Stat3 enic potential (5) ch induces n seems to be Stat3 isoform Stat3α (86 kDa) and it is notable that
Background Re	ferences	1. Heim, M.H. (2001) <i>J</i> 2. Takeda, K. et al. (19 3. Catlett-Falcone, R. e 4. Garcia, R. and Jove, 5. Bromberg, J.F. et al 6. Darnell, J.E. et al. (1 7. Ihle, J.N. (1995) <i>Nat</i> 8. Wen, Z. et al. (1995) 9. Yokogami, K. et al. 10. Biethahn, S. et al.	197) Proc Natl Acad . et al. (1999) Immun R. (1998) J Biomed . (1999) Cell 98, 295 994) Science 264, 1- ture 377, 591-4.) Cell 82, 241-50. (2000) Curr Biol 10,	<i>Sci U S A</i> 94, 3801-4. <i>ity</i> 10, 105-15. <i>Sci</i> 5, 79-85. -303. 415-21. 47-50.		
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer			membrane with diluted with gentle shaking, ove		n 5% w/v nonfat

Applications Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP			
Cross-Reactivity Key	H: Human			
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