#9131

Phospho-Stat3 (Tyr705) Antibody



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Applications: W, W-S, IP, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 79, 86	Source/Isotype: Rabbit	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 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Western Blotting Simple Western™ Immunoprecipitation Chromatin IP			Dilution 1:1000 1:10 - 1:50 1:50 1:25 - 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sen	sitivity	Phospho-Stat3 (Tyr705) Antibody detects endogenous levels of Stat3 only when phosphorylated at Tyr705. The antibody does not cross-react with other Stat proteins when phosphorylated on the corresponding tyrosine residue, but has been shown to cross-react with Phospho-EGFR.			ated on the	
Species predict based on 100% homology		Chicken, Bovine, Dog				
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr705 of mouse Stat3. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		is constitutively activate and anti-apoptotic activ dimerization, nuclear tr	uired for murine f ed in a number of vities (3). Stat3 is a ranslocation, and l ylation at Ser727 t reflect biological fu l on cell type, ligar	etal development (2). Re human tumors (3,4) and ctivated by phosphoryla DNA binding (6,7). Trans hrough the MAPK or m unction as the relative e id exposure, or cell mate	esearch studies have d possesses oncoge tion at Tyr705, whic criptional activatior FOR pathways (8,9). xpression levels of S uration stage (10). I	e shown that Stat3 nic potential (5) th induces seems to be Stat3 isoform Stat3α (86 kDa) and t is notable that
Background Re	eferences	1. Heim, M.H. (2001) <i>J R</i> 2. Takeda, K. et al. (1997 3. Catlett-Falcone, R. et 4. Garcia, R. and Jove, R 5. Bromberg, J.F. et al. (6. Darnell, J.E. et al. (1997 7. Ihle, J.N. (1995) <i>Natu</i> 8. Wen, Z. et al. (1995) 0 9. Yokogami, K. et al. (2 10. Biethahn, S. et al. (1	7) Proc Natl Acad 3 al. (1999) Immuni 4. (1998) J Biomed 4 1999) Cell 98, 295- 94) Science 264, 14 re 377, 591-4. Cell 82, 241-50. 000) Curr Biol 10,	5 <i>ci U S A</i> 94, 3801-4. ity 10, 105-15. 5 <i>ci</i> 5, 79-85. 303. 115-21. 47-50.		
Species Reactiv	/ity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a			primary antibody in	ר 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting W-	- S: Simple Westerr	™ IP: Immunoprecipita	tion ChIP: Chromat	n IP

Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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