Phospho-Stat1 (Tyr701) Antibody





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Applications: W, IP, ChIP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 84, 91	Source/Isotype: Rabbit	UniProt ID: #P42224	Entrez-Gene Id: 6772		
Product Usage Information		Application Western Blotting Immunoprecipitation Chromatin IP) 450 mM No Cl 400 um	Dilution 1:1000 1:100 1:25	united States at		
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	pecificity/Sensitivity Phospho-Stat1 (Tyr701) Antibody detects endogenous levels of Stat1 only when phosphorylated tyrosine 701 of p91 Stat1 and also the p84 s variant. It does not cross-react with the corresponding phospho-tyrosines of other Stat protein				o the p84 splice			
Species predict based on 100% homology	ed to react sequence	Bovine, Dog						
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr701 of human Stat1. Antibodies are purified by protein A and peptide affinity chromatography.						
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 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.						
Background Re	ferences	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 Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat						
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