Limited Uses

Phospho-Stat5 (Tyr694) (14H2) Mouse



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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Mouse IgG1	UniProt ID: #P42229, #P51692	Entrez-Gene Id 6776, 6777
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200	
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. <i>Do not aliquot the antibody.</i>				
		For a carrier free (BSA and azide free) version of this product see product #33857.				
Specificity/Sensitivity		Phospho-Stat5 (Tyr694) (14H2) Mouse mAb detects endogenous levels of Stat5a only when phosphorylated at Tyr694 and Stat5b when phosphorylated at Tyr699. It does not cross-react with the corresponding phospho-tyrosines of other Stat proteins.				
Species predic based on 100% homology		Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr694 of mouse Stat5a.				
Background		Stat5 is activated in response to a wide variety of ligands, including IL-2, GM-CSF, growth hormone, and prolactin. Phosphorylation at Tyr694 is obligatory for Stat5 activation (1,2). This phosphorylation is mediated by Src upon erythropoietin stimulation (3). Stat5 is constitutively active in some leukemic cell types (4). Phosphorylated Stat5 is found in some endothelial cells treated with IL-3, which suggests its involvement in angiogenesis and cell motility (5). Stat5a and Stat5b are independently regulated and activated in various cell types. For instance, interferon treatment predominantly activates Stat5a in U-937 cells and Stat5b in HeLa cells (6).				
Background References		1. Gouilleux, F. et al. (1 2. Wakao, H. et al. (199 3. Okutani, Y. et al. (200 4. Demoulin, J.B. et al. 5. Dentelli, P. et al. (199 6. Meinke, A. et al. (199	14) <i>EMBO J</i> 13, 2182 01) <i>Oncogene</i> 20, ((1999) <i>J Biol Chem</i> 99) <i>J Immunol</i> 163,	2-91. 6643-50. 274, 25855-61. 2151-9.		
Species Reactivity		Species reactivity is de	termined by testin	g in at least one appro	ved application (e.g., w	estern 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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse				
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