

#9356 Store at -20°C

Phospho-Stat5 (Tyr694) (14H2) Mouse mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M	Endogenous	90	Mouse IgG1	#P42229, #P51692	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 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
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 predicted to react based on 100% sequence 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. (1994) <i>EMBO J</i> 13, 4361-9. 2. Wakao, H. et al. (1994) <i>EMBO J</i> 13, 2182-91. 3. Okutani, Y. et al. (2001) <i>Oncogene</i> 20, 6643-50. 4. Demoulin, J.B. et al. (1999) <i>J Biol Chem</i> 274, 25855-61. 5. Dentelli, P. et al. (1999) <i>J Immunol</i> 163, 2151-9. 6. Meinke, A. et al. (1996) <i>Mol Cell Biol</i> 16, 6937-44.	

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
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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