

#9351 Store at -20C

## Phospho-Stat5 (Tyr694) Antibody



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> WB	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 90	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #P42229, #P51692	<b>Entrez-Gene Id:</b> 6776, 6777
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>	
<b>Specificity / Sensitivity</b>	Phospho-Stat5 (Tyr694) Antibody detects endogenous levels of Stat5a only when phosphorylated at Tyr694 and Stat5b when phosphorylated at Tyr699. The antibody does not cross-react with the corresponding phospho-tyrosine residues of other Stat proteins, but does cross-react with EGFR.	
<b>Species predicted to react based on 100% sequence homology:</b>	Rat, Bovine	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr694 of mouse Stat5a. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Gouilleux, F. et al. (1994) <i>EMBO J</i> 13, 4361-9.</li> <li>2. Wakao, H. et al. (1994) <i>EMBO J</i> 13, 2182-91.</li> <li>3. Okutani, Y. et al. (2001) <i>Oncogene</i> 20, 6643-50.</li> <li>4. Demoulin, J.B. et al. (1999) <i>J Biol Chem</i> 274, 25855-61.</li> <li>5. Dentelli, P. et al. (1999) <i>J Immunol</i> 163, 2151-9.</li> <li>6. Meinke, A. et al. (1996) <i>Mol Cell Biol</i> 16, 6937-44.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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