

## Phospho-Stat5 (Tyr694) (D47E7) XP<sup>®</sup> Rabbit mAb



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

Applications: V, W-S, IF-IC, FC-FP	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 90	Source/Isotype: Rabbit IgG	UniProt ID: #P42229, #P51692	Entrez-Gene Id 6776, 6777		
Product Usage Information		<b>Application</b> Western Blotting Simple Western <sup>™</sup> Immunofluorescence Flow Cytometry (Fixe						
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.						
		For a carrier free (BSA and azide free) version of this product see product #72712.						
Specificity/Sens	itivity	Phospho-Stat5 (Tyr694) (D47E7) XP <sup>®</sup> Rabbit mAb detects endogenous levels of Stat5a only when phosphorylated at Tyr694 and Stat5b when phosphorylated at Tyr699.						
Species predicte based on 100% s homology	ed to react sequence	Rat, Bovine						
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr694 of human Stat5a protein.						
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 Ref	erences	1. Gouilleux, F. et al. ( 2. Wakao, H. et al. (19 3. Okutani, Y. et al. (2 4. Demoulin, J.B. et al 5. Dentelli, P. et al. (19 6. Meinke, A. et al. (19	994) <i>EMBO J</i> 13, 2182 001) <i>Oncogene</i> 20, 6 I. (1999) <i>J Biol Chem</i> 999) <i>J Immunol</i> 163,	2-91. 5643-50. 274, 25855-61. 2151-9.				
Species Reactivi	ty	Species reactivity is d	etermined by testin	g in at least one appro	ved application (e.g., w	vestern blot).		
Western Blot Bu	ıffer	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 Ke	y	<b>W:</b> Western Blotting Flow Cytometry (Fixe		Vestern™ <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> zed)				
Cross-Reactivity	' Key	H: Human M: Mouse						
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