

Phospho-Stat6 (Tyr641) Antibody



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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit	UniProt ID: #P42226	Entrez-Gene Id: 6778
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Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:100 1:100
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/Sensitivity	Phospho-Stat6 (Tyr641) Antibody detects endogenous levels of Stat6 only when phosphorylated at tyrosine 641. The antibody does not cross-react with the corresponding phospho-tyrosine residues of other Stat proteins.	
Species predicted to react based on 100% sequence homology	Bovine	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr641 of human Stat6. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Upon activation by Janus kinases, Stat6 translocates to the nucleus where it regulates cytokine-induced gene expression. Stat6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13 (1-4). In addition, Stat6 is activated by IFN-α in B cells, where it forms transcriptionally active complexes with Stat2 and p48 (5,6). Protein phosphatase 2A is also involved in regulation of IL-4-mediated Stat6 signaling (7).	
Background References	<ol style="list-style-type: none"> Nelms, K. et al. (1999) <i>Ann. Rev. Immunol.</i> 17, 701-738. Malabarba, M.G. et al. (1996) <i>Biochem. J.</i> 319, 865-872. Hou, J. et al. (1994) <i>Science</i> 265, 1701-1706. Quelle, F.W. et al. (1995) <i>Mol. Cell. Biol.</i> 15, 3336-3343. Takeda, K. et al. (1996) <i>Nature</i> 380, 627-630. Gupta, S. et al. (1999) <i>J. Immunol.</i> 163, 3834-3841. Woetmann, A. et al. (2003) <i>J. Biol. Chem.</i> 278, 2787-2791. 	
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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human	
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