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Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit



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Applications: W, IP, IF-IC, FC-FP, ChIP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #P42226	Entrez-Gene Id: 6778		
Product Usage Information		For optimal ChIP results, use 5 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.						
		Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixed Chromatin IP		Dilution 1:1000 1:50 1:200 - 1:800 1:50 - 1:200 1:100				
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 #46186.						
Specificity/Sen	sitivity	Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit mAb recognizes endogenous levels of Stat6 protein only when phosphorylated at Tyr641. Weak cross-reactivity with other tyrosine-phosphorylated proteins has been observed in some cell lines.						
Species predict based on 100% homology		Rat						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Tyr641 of human Stat6 protein.						
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 Re	eferences	1. Nelms, K. et al. (1999) <i>Ann. Rev. Immunol.</i> 17, 701-738. 2. Malabarba, M.G. et al. (1996) <i>Biochem. J.</i> 319, 865-872. 3. Hou, J. et al. (1994) <i>Science</i> 265, 1701-1706. 4. Quelle, F.W. et al. (1995) <i>Mol. Cell. Biol.</i> 15, 3336-3343. 5. Takeda, K. et al. (1996) <i>Nature</i> 380, 627-630. 6. Gupta, S. et al. (1999) <i>J. Immunol.</i> 163, 3834-3841. 7. Woetmann, A. et al. (2003) <i>J. Biol. Chem.</i> 278, 2787-2791.						
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP						
Cross-Reactivit	у Кеу	H: Human M: Mouse						
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