Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit mAb



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Applications: WB, 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 This	For optimal ChIP results, use 5 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Ap	Application			Dilution		
	We	Western Blotting			1:1000		
	lm	Immunoprecipitation			1:50		
	Im	Immunofluorescence (Immunocytochemistry)			1:200 - 1:800		
	Flo	Flow Cytometry (Fixed/Permeabilized)			1:50 - 1:200		
	Ch	Chromatin IP			1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #46186.					
Specificity / Sensiti	Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit mAb recognizes end phosphorylated at Tyr641. Weak cross-reactivity with other tyrobserved in some cell lines.						
Species predicted t react based on 1009 sequence homology	%						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phospho-peptide correspondito residues surrounding Tyr641 of human Stat6 protein.					
Background	ger 4 aı con	Upon activation by Janus kinases, Stat6 translocates to the nucleus where it regulates cytokinegene expression. Stat6 is activated via phosphorylation at Tyr641 and is required for responsive 4 and IL-13 (1-4). In addition, Stat6 is activated by IFN- α in B cells, where it forms transcriptiona complexes with Stat2 and p48 (5,6). Protein phosphatase 2A is also involved in regulation of IL-4 Stat6 signaling (7).					
Background Refere	2. M 3. H 4. Q 5. T 6. G	 Nelms, K. et al. (1999) Ann. Rev. Immunol. 17, 701-738. Malabarba, M.G. et al. (1996) Biochem. J. 319, 865-872. Hou, J. et al. (1994) Science 265, 1701-1706. Quelle, F.W. et al. (1995) Mol. Cell. Biol. 15, 3336-3343. Takeda, K. et al. (1996) Nature 380, 627-630. Gupta, S. et al. (1999) J. Immunol. 163, 3834-3841. Woetmann, A. et al. (2003) J. Biol. Chem. 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.

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) **Applications Key**

FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP

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Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit mAb (#56554) Datasheet Without Images Cell Signaling Technolo...

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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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