3/23/24, 1:04 PM Revision 1

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ୁର୍ଚ୍ଚୁ Stat Antibody Sampler Kit II	C T		
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
30	Support:	877-678-TECH (8324)	
1 Kit (6 x 20 microliters)	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   M	assachusetts   01923   USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Stat1 (D1K9Y) Rabbit mAb	14994	20 µl	84, 91 kDa	Rabbit IgG
Stat2 (D9J7L) Rabbit mAb	72604	20 µl	97, 113 kDa	Rabbit IgG
Stat3 (D1B2J) Rabbit mAb	30835	20 µl	79, 86 kDa	Rabbit IgG
Stat4 (C46B10) Rabbit mAb	2653	20 µl	81 kDa	Rabbit
Stat5 (D2O6Y) Rabbit mAb	94205	20 µl	90 kDa	Rabbit IgG
Stat6 (D3H4) Rabbit mAb	5397	20 µl	110 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	Stat Antibody Sampler Kit II provides an economical means to examine the complete Stat family: Stat1-6. The kit contains enough a primary antibody to perform two western blot experiments with each primary antibody.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.
Background	Jaks (Janus Kinases) and Stats (Signal Transducers and Activators of Transcription) are utilized by receptors for a wide variety of ligands including cytokines, hormones, growth factors and neurotransmitters. Jaks, activated via autophosphorylation following ligand-induced receptor aggregation, phosphorylate tyrosine residues on associated receptors, Stat molecules and other downstream signaling proteins (1,2). The phosphorylation of Stat proteins at conserved tyrosine residues activates SH2-mediated dimerization followed rapidly by nuclear translocation. Stat dimers bind to IRE (interferon response element) and GAS (gamma interferon-activated sequence) DNA elements, resulting in the transcriptional regulation of downstream genes (1,2). The remarkable range and specificity of responses regulated by the Stats is determined in part by the tissue-specific expression of different cytokine receptors, Jaks and Stats (2,3), and by the combinatorial coupling of various Stat members to different receptors. Serine phosphorylation in the carboxy-terminal transcriptional activation domain has been shown to regulate the function of Stat1, -2, -3, -4 and -5 (1). Phosphorylation of Stat3 at Ser727 via MAPK or mTOR pathways is required for optimal transcriptional activation in response to growth factors and cytokines including IFN-gamma and CNTF (4,5). Jak/Stat pathways also play important roles in oncogenesis, tumor progression, angiogenesis, cell motility, immune responses and stem cell differentiation (6-11).
	<ol> <li>Darnell Jr., J. et al. (1994) Science 264, 1415-1421.</li> <li>Leonard, W.J. and O'Shea, J.J. (1998) Annu. Rev. Immunol. 16, 293-322.</li> <li>Caldenhoven, E. et al. (1996) J. Biol. Chem. 271, 13221-13227.</li> <li>Wen, Z. et al. (1995) Cell 82, 241-250.</li> <li>Yokogami, K. et al. (2000) Curr. Biol. 10, 47-50.</li> <li>Lim, C.P. and Cao, X. (1999) J. Biol. Chem. 274, 31055-31061.</li> <li>Bromberg, J. F. et al. (1999) Cell 98, 295-303.</li> <li>Su, L. et al. (1999) J. Biol. Chem. 274, 31770-31774.</li> <li>Dentelli, P. et al. (1999) J. Immunol. 163, 2151-2159.</li> <li>Cattaneo, E. et al. (1999) Trends Neurosci. 22, 365-369.</li> <li>Frank, D.A. (1999) Mol. Med. 5, 432-456.</li> </ol>
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## Stat Antibody Sampler Kit II (#93130) Datasheet Without Images Cell Signaling Technology

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