Stat4 (C46B10) Rabbit mAb



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Web: info@cellsignal.com

cellsignal.com

11-				3 Trask L	.ane Danvers Mass	chusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IP, ChIP, ChIP-seq	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 81	Source/Isotype: Rabbit	UniProt ID: #Q14765	Entrez-Gene Id: 6775	
Product Usage Information				use 10 µl of antibody an validated using Simple			
	Application			Dilution			
	We	estern Blotting		1:1000			
	Im	Immunoprecipitation			1:50		
	Ch	Chromatin IP			1:50		
	Ch	Chromatin IP-seq			1:50		
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.					
Specificity / Sensitiv	/ity Sta	Stat4 (C46B10) Rabbit mAb detects endogenous levels of total Stat4 protein.					
Source / Purification Monoclonal antibody is produced by immunizing animals wit residues surrounding Lys151 of Stat4.					a synthetic peptide corresponding to		
Background	(1). pro acti det wel pre	The Jak-Stat signaling pathway is utilized by a large number of cytokines, growth factors, and hormones (1). Receptor-mediated tyrosine phosphorylation of Jak family members triggers phosphorylation of Stat proteins, resulting in their nuclear translocation, binding to specific DNA elements, and subsequent activation of transcription. 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, as well as by the combinatorial coupling of various Stat members to different receptors (2). Stat4 is predominantly expressed in the spleen, thymus, and testis and has been most extensively investigated as the mediator of IL-12 responses (3-8). Activation of Stat4 is associated with phosphorylation at Tyr693 (9).					
Background Refere	2. L	1. Darnell, J.E. et al. (1994) <i>Science</i> 264, 1415-1421. 2. Leonard, W.J. and O'Shea, J.J. (1998) <i>Annu. Rev. Immunol.</i> 16, 293-322.					

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- 6. Bacon, C.M. et al. (1995) Proc. Natl. Acad. Sci. USA 92, 7307-7311.
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Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key Cross-Reactivity Key WB: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq

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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

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

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Limited Uses

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