

Stat2 (D9J7L) Rabbit mAb



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Applications: W, IP, IF-IC, FC-FP, ChIP, ChIP-seq, C&R	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 97, 113	Source/Isotype: Rabbit IgG	UniProt ID: #P52630	Entrez-Gene Id : 6773
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μ l 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.				
		The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.				
		Application Dilution				ution
		Western Blotting			1:1000	
		Immunoprecipitation			1:50	
		Immunofluorescence (Immunocytochemistry)			1:100 - 1:400	
		Flow Cytometry (Fixed/Permeabilized)			1:50 - 1:200	
		Chromatin IP			1:5	0
		Chromatin IP-seq			1:5	0
		CUT&RUN			1:5	0
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 #19413.				
Specificity/Sensitivity		Stat2 (D9J7L) Rabbit mAb recognizes endogenous levels of total Stat2 protein.				
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu706 of human Stat2 protein.				
Background		Stat2 (113 kDa), originally purified from the nuclei of alpha-interferon-treated cells, is critical to the transcriptional responses induced by type I interferons, IFN-alpha/beta (1,2). Knockout mice with a targeted disruption of Stat2 have higher susceptibility to viral infection and altered responses to type I interferons (3). Stat2 is rapidly activated by phosphorylation at Tyr690 in response to stimulation by IFN-alpha/beta via associations with receptor-bound Jak kinases (4). Unlike other Stat proteins, Stat2 does not form homodimers. Instead, activated Stat2 forms a heterodimer with Stat1 and translocates to the nucleus. There, it associates with the DNA-binding protein p48 and forms the transcriptional activator complex, interferon-stimulated gene factor 3 (ISGF3), promoting transcription from the ISRE (5).				
Background References		 Fu, X.Y. et al. (1992) Proc Natl Acad Sci U S A 89, 7840-3. Ihle, J.N. (2001) Curr Opin Cell Biol 13, 211-7. Park, C. et al. (2000) Immunity 13, 795-804. Improta, T. et al. (1994) Proc Natl Acad Sci U S A 91, 4776-80. Horvath, C.M. et al. (1996) Mol Cell Biol 16, 6957-64. 				
Species Reactiv	vity	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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq **C&R:**

CUT&RUN

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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