Revision 13						
Stat3 (124H6) Mouse mAb						Signaling H N O L O G Y°
Stor					Orders: or	877-616-CELL (2355) ders@cellsignal.com
0					Support:	877-678-TECH (8324)
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6#				3 Trask Lane D	anvers Massach	usetts 01923 USA
or Research Use O	nly. Not for Use	e in Diagnostic Proced	lures.			
Applications: W, W-F, W-S, IP, IHC-Bond, IHC-P, IF-IC, FC-FP, ChIP, C&R	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 79, 86	Source/Isotype: Mouse IgG2a kappa	UniProt ID: #P40763	Entrez-Gene Id: 6774
Product Usage Information				oody and 10 μg of chror g SimpleChIP [®] Enzyma		
Storage		Application Western Blotting Fluorescent Western Simple Western™ Immunoprecipitation IHC Leica Bond Immunohistochemist Immunofluorescence Flow Cytometry (Fixed Chromatin IP CUT&RUN Supplied in 10 mM so 0.02% sodium azide. S	ry (Paraffin) (Immunocytochen d/Permeabilized) dium HEPES (pH 7.: Store at –20°C. Do r	5), 150 mM NaCl, 100 μα not aliquot the antibody rsion of this product see	Dilu 1:10 1:10 1:10 1:20 1:30 1:30 1:30 1:30 1:10 1:10 1:10 1:1	000 0 - 1:50 00 00 - 1:1200 00 - 1:1200 00 - 1:3200 00 - 1:400 00
Specificity/Sensitivity		Stat3 (124H6) Mouse mAb detects endogenous levels of total Stat3 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide centered around amino acid Gln692 of human Stat3.				
Background		The Stat3 transcription factor is an important signaling molecule for many cytokines and growth factor receptors (1) and is required for murine fetal development (2). Research studies have shown that Stat3 is constitutively activated in a number of human tumors (3,4) and possesses oncogenic potential (5) and anti-apoptotic activities (3). Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, nuclear translocation, and DNA binding (6,7). Transcriptional activation seems to be regulated by phosphorylation at Ser727 through the MAPK or mTOR pathways (8,9). Stat3 isoform expression appears to reflect biological function as the relative expression levels of Stat3α (86 kDa) and Stat3β (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable that Stat3β lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8).				
Background Re	ferences	 Heim, M.H. (2001) <i>J Recept Signal Transduct Res</i> 19, 75-120. Takeda, K. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 3801-4. Catlett-Falcone, R. et al. (1999) <i>Immunity</i> 10, 105-15. Garcia, R. and Jove, R. (1998) <i>J Biomed Sci</i> 5, 79-85. Bromberg, J.F. et al. (1999) <i>Cell</i> 98, 295-303. Darnell, J.E. et al. (1994) <i>Science</i> 264, 1415-21. Ihle, J.N. (1995) <i>Nature</i> 377, 591-4. Wen, Z. et al. (1995) <i>Cell</i> 82, 241-50. Yokogami, K. et al. (2000) <i>Curr Biol</i> 10, 47-50. Biethahn, S. et al. (1999) <i>Exp Hematol</i> 27, 885-94. 				

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 W-F: Fluorescent Western W-S: Simple Western [™] IP: Immunoprecipitation IHC- Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP C&R: CUT&RUN				
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey				
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