eogs 9216# For Research Use Onl	-	•			· · ·	877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com assachusetts 01923 USA
Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 86	Source/Isotype: Mouse IgM	UniProt ID: #P40763	Entrez-Gene Id: 6774
Product Usage	Ар	plication			Dilution	

StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycero 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.Specificity / SensitivityPhospho-Stat3 (Ser727) (6E4) Mouse mAb detects endogenous levels of Stat3 only whe	nen phosphorylated ed serines of other				
Specificity / Sensitivity Phospho-Stat3 (Ser727) (6E4) Mouse mAb detects endogenous levels of Stat3 only whe	ed serines of other				
at serine 727. It does not significantly cross-react with the corresponding phosphorylated	Phospho-Stat3 (Ser727) (6E4) Mouse mAb detects endogenous levels of Stat3 only when phosphorylated at serine 727. It does not significantly cross-react with the corresponding phosphorylated serines of other Stat proteins. The antibody does not cross-react with nonphosphorylated Stat3 or with Stat3 phosphorylated at other sites.				
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide residues surrounding Ser727 of mouse Stat3.	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser727 of mouse Stat3.				
Background The Stat3 transcription factor is an important signaling molecule for many cytokines and greceptors (1) and is required for murine fetal development (2). Research studies have she constitutively activated in a number of human tumors (3,4) and possesses oncogenic pot apoptotic activities (3). Stat3 is activated by phosphorylation at Tyr705, which induces dir translocation, and DNA binding (6,7). Transcriptional activation seems to be regulated by at Ser727 through the MAPK or mTOR pathways (8,9). Stat3 isoform expression appears biological function as the relative expression levels of Stat3α (86 kDa) and Stat3β (79 kD type, ligand exposure, or cell maturation stage (10). It is notable that Stat3β lacks the ser phosphorylation site within the carboxy-terminal transcriptional activation domain (8).	shown that Stat3 is otential (5) and anti- dimerization, nuclear by phosphorylation ars to reflect (Da) depend on cell				
Background References 1. Heim, M.H. (2001) J Recept Signal Transduct Res 19, 75-120. 2. Takeda, K. et al. (1997) Proc Natl Acad Sci U S A 94, 3801-4. 3. Catlett-Falcone, R. et al. (1999) Immunity 10, 105-15. 4. Garcia, R. and Jove, R. (1998) J Biomed Sci 5, 79-85. 5. Bromberg, J.F. et al. (1999) Cell 98, 295-303. 6. Darnell, J.E. et al. (1994) Science 264, 1415-21. 7. Ihle, J.N. (1995) Nature 377, 591-4. 8. Wen, Z. et al. (1995) Cell 82, 241-50. 9. Yokogami, K. et al. (2000) Curr Biol 10, 47-50. 10. Biethahn, S. et al. (1999) Exp Hematol 27, 885-94.					
Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., west	stern blot).				
Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% wilk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	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.				
	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				

Phospho-Stat3 (Ser727) (6E4) Mouse mAb (#9136) Datasheet Without Images Cell Signaling Technology

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