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Phospho-Stat3 (Ser727) (D8C2Z) Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 86	Source/Isotype: Rabbit IgG	UniProt ID: #P40763	Entrez-Gene Id: 6774			
Product Usage Information		Application Western Blotting		Dilution 1:1000					
Storage	Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>						
Specificity/Sensitivity		Phospho-Stat3 (Ser727) (D8C2Z) Rabbit mAb (Biotinylated) recognizes endogenous levels of Stat3 protein only when phosphorylated at Ser727.							
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Ser727 of human Stat3 protein.							
Description	tion This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Stat3 (Ser727) (D8C2Z) Rabbit mAb #94994.								
Background	kground The Stat3 transcription factor is an important signaling molecule for many cytokines and growth fareceptors (1) and is required for murine fetal development (2). Research studies have shown that S is constitutively activated in a number of human tumors (3,4) and possesses oncogenic potential (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 Stat3β (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable the Stat3β lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8).					e shown that Stat3 nic potential (5) th induces seems to be Stat3 isoform Stat3α (86 kDa) and t is notable that			
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 React	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).			
Western Blot	-	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, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications k	(ey	W: Western Blotting							
Cross-Reactivi	ity Key	H: Human M: Mouse R: Rat Mk: Monkey							
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