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Phospho-Stat3 (Ser727) (D8C2Z) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 86	Source/Isotype: Rabbit IgG	UniProt ID: #P40763	Entrez-Gene Id: 6774	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
	Im	munoprecipitation			1:200		
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 / Sensitivity		Phospho-Stat3 (Ser727) (D8C2Z) Rabbit mAb 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.					
The Stat3 transcription factor is an important signaling molecule for many cytokines and growth fact receptors (1) and is required for murine fetal development (2). Research studies have shown that St constitutively activated in a number of human tumors (3,4) and possesses oncogenic potential (5) a apoptotic activities (3). Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, translocation, and DNA binding (6,7). Transcriptional activation seems to be regulated by phosphory 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 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).						shown that Stat3 is potential (5) and anti- dimerization, nuclear by phosphorylation ears to reflect kDa) depend on cell	
Background References		akeda, K. et al. (1995) catlett-Falcone, R. et al. (arcia, R. and Jove, romberg, J.F. et al. (arnell, J.E. et al. (1995) Natuven, Z. et al. (1995) okogami, K. et al. (2	7) Proc Natl Aca: al. (1999) Immu R. (1998) J Biom (1999) Cell 98, 29 (194) Science 264 (1964) Transport 1994 (1964) Received 1994 (1964) Received 1995 (1995) Received 1995 (1996) Received 1995 (199	ence 264, 1415-21. 591-4. 241-50.			

Species Reactivity 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 BSA, 1X TBS,

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

Applications Key WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key 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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