Phospho-Stat3 (Ser727) (D8C2Z) XP® Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P40763	Entrez-Gene Id: 6774
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), antibody. Protect from li		zide and 2 mg/ml BS	A. Store at 4°C. Do not aliquot the
Specificity/Sensitivity		Phospho-Stat3 (Ser727) (D8C2Z) XP^{\otimes} Rabbit mAb (PE Conjugate) 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		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Stat3 (Ser727) (D8C2Z) XP [®] Rabbit mAb #94994.			
Background		receptors (1) and is requis constitutively activated and anti-apoptotic actividimerization, nuclear traregulated by phosphory expression appears to re Stat3β (79 kDa) depended	ired for murine fetal devidin a number of human tites (3). Stat3 is activated anslocation, and DNA bindlation at Ser727 through effect biological function at cell type, ligand expos	elopment (2). Researd tumors (3,4) and post by phosphorylation of ding (6,7). Transcripti the MAPK or mTOR p as the relative expres ure, or cell maturatio	nany cytokines and growth factor th studies have shown that Stat3 sesses oncogenic potential (5) at Tyr705, which induces onal activation seems to be eathways (8,9). Stat3 isoform sion levels of Stat3α (86 kDa) and on stage (10). It is notable that hal transcriptional activation
Background References		1. Heim, M.H. (2001) <i>J Recept Signal Transduct Res</i> 19, 75-120. 2. Takeda, K. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 3801-4. 3. Catlett-Falcone, R. et al. (1999) <i>Immunity</i> 10, 105-15. 4. Garcia, R. and Jove, R. (1998) <i>J Biomed Sci</i> 5, 79-85. 5. Bromberg, J.F. et al. (1999) <i>Cell</i> 98, 295-303. 6. Darnell, J.E. et al. (1994) <i>Science</i> 264, 1415-21. 7. Ihle, J.N. (1995) <i>Nature</i> 377, 591-4. 8. Wen, Z. et al. (1995) <i>Cell</i> 82, 241-50. 9. Yokogami, K. et al. (2000) <i>Curr Biol</i> 10, 47-50. 10. Biethahn, S. et al. (1999) <i>Exp Hematol</i> 27, 885-94.			

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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