Phospho-Stat3 (Tyr705) (D3A7) 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), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibodies. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-Stat3 (Tyr705) (D3A7) XP [®] Rabbit mAb (PE Conjugate) detects endogenous levels of Stat3 only when phosphorylated at Tyr705. This antibody does not cross-react with phospho-EGFR or the corresponding phospho-tyrosines of other Stat proteins.			
Species predicte based on 100% s homology		Hamster, Bovine, Pig, Ho	rse		
Source / Purifica	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr705 of mouse Stat3 protein.				
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house f direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Stat3 (Tyr705) (D3A7) XP [®] Rabbit mAb #9145.				
BackgroundThe Stat3 transcription factor is an important signaling molecular receptors (1) and is required for murine fetal development (2). Is constitutively activated in a number of human tumors (3,4) and anti-apoptotic activities (3). Stat3 is activated by phosphory dimerization, nuclear translocation, and DNA binding (6,7). The regulated by phosphorylation at Ser727 through the MAPK or expression appears to reflect biological function as the relative Stat3 β (79 kDa) depend on cell type, ligand exposure, or cell m Stat3 β lacks the serine phosphorylation site within the carboxy domain (8).				elopment (2). Resear tumors (3,4) and pos by phosphorylation ding (6,7). Transcript the MAPK or mTOR p as the relative expressure, or cell maturation	ch studies have shown that Stat3 sesses oncogenic potential (5) at Tyr705, which induces ional activation seems to be pathways (8,9). Stat3 isoform sion levels of Stat3α (86 kDa) and on stage (10). It is notable that
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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