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Phospho-Stat3 (Tyr705) (D3A7) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactive FC-FP H M R		UniProt ID:Entrez-Gene Id:#P407636774
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and antibody. Protect from light. Do not freeze.	2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Phospho-Stat3 (Tyr705) (D3A7) XP [®] Rabbit mAb (Alexa Flu of Stat3 only when phosphorylated at Tyr705. This antibody the corresponding phospho-tyrosines of other Stat proteins.	
Species predicted to react based on 100% sequence homology:	Hamster, Bovine, Pig, Horse	
Source / Purification	Monoclonal antibody is produced by immunizing animals wit residues surrounding Tyr705 of mouse Stat3. The antibody v optimal conditions with an F/P ratio of 2-6.	
Product Description	This Cell Signaling Technology antibody conjugated to Alexa house for direct flow cytometric analysis of human cells. The Phospho- Stat3 (Tyr705) from human, mouse and rat. CST e XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) will also reco	e unconjugated antibody #9145 reacts with expects that Phospho-Stat3 (Tyr705) (D3A7)
Background	The Stat3 transcription factor is an important signaling molec receptors (1) and is required for murine fetal development (2 constitutively activated in a number of human tumors (3,4) a apoptotic activities (3). Stat3 is activated by phosphorylation translocation, and DNA binding (6,7). Transcriptional activati at Ser727 through the MAPK or mTOR pathways (8,9). Stat3 biological function as the relative expression levels of Stat30 type, ligand exposure, or cell maturation stage (10). It is not phosphorylation site within the carboxy-terminal transcription	2). Research studies have shown that Stat3 is and possesses oncogenic potential (5) and anti- a at Tyr705, which induces dimerization, nuclear ion seems to be regulated by phosphorylation 3 isoform expression appears to reflect α (86 kDa) and Stat3 β (79 kDa) depend on cell able that Stat3 β lacks the serine
Background References	 Heim, M.H. (2001) J Recept Signal Transduct Res 19, 75- Takeda, K. et al. (1997) Proc Natl Acad Sci U S A 94, 380 Catlett-Falcone, R. et al. (1999) Immunity 10, 105-15. Garcia, R. and Jove, R. (1998) J Biomed Sci 5, 79-85. Bromberg, J.F. et al. (1999) Cell 98, 295-303. Darnell, J.E. et al. (1994) Science 264, 1415-21. Ihle, J.N. (1995) Nature 377, 591-4. Wen, Z. et al. (1995) Cell 82, 241-50. Yokogami, K. et al. (2000) Curr Biol 10, 47-50. Biethahn, S. et al. (1999) Exp Hematol 27, 885-94. 	
Species Reactivity	Species reactivity is determined by testing in at least one app	proved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	

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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