

Stat3 (D3Z2G) Rabbit mAb (Alexa Fluor[®] 647 Conjugate)



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

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/Permeabilized)			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 th antibody. Protect from light. Do not freeze.					
Specificity/Sensitivity		Stat3 (D3Z2G) Rabbit mAb (Alexa Fluor [®] 647 Conjugate) recognizes endogenous levels of total Stat3 protein.					
Species predicted to react based on 100% sequence homology		Bovine, Pig					
Source / Purificat	tion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly700 of human Stat3 protein.			etic peptide corresponding to		
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Stat3 (D3Z2G) Rabbit mAb #12640.					
Background		The Stat3 transcription factor is an important signaling molecule for many cytokines and growth factor receptors (1) and is required for murine fetal development (2). Research studies have shown that Stat3 is constitutively activated in a number of human tumors (3,4) and possesses oncogenic potential (5) 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 Stat3 α (86 kDa) and Stat3 β (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable that Stat3 β lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8).					
Background Refe	erences	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. (1999) Exp Hematol 27, 885-94.					
Species Reactivit	у	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	Кеу	H: Human M: Mouse R: Rat Mk: Monkey					
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