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 Stat3 (D3Z2G) Rabbit mAb (Alexa
 Image: Cell Signaling tell

 Fluor® 647 Conjugate)
 TECHNOLOGY*

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Applications: Reacti 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 2 mg/ml BSA. Store at 4°C. Do not aliquot the 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 / Purification	Monoclonal antibody is produced by immunizing animals residues surrounding Gly700 of human Stat3 protein.	with a synthetic peptide corresponding to
Product Description	This Cell Signaling Technology antibody is conjugated to house for direct flow cytometric analysis in human cells. species cross-reactivity as the unconjugated Stat3 (D3Z2	This antibody is expected to exhibit the same
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 Stat3α (86 kDa) and Stat3β (79 kDa) depend on cell 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).	
Background References	 Heim, M.H. (2001) J Recept Signal Transduct Res 19, Takeda, K. et al. (1997) Proc Natl Acad Sci U S A 94, 3 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	approved 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 X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S CP: Guinea Pig Pab, rabbit All: all species expected	

GP: Guinea Pig Rab: rabbit All: all species expected

1/1/24, 2:33 PM	Stat3 (D3Z2G) Rabbit mAb (Alexa Fluor® 647 Conjugate) (#14062) Datasheet Without Images Cell Signalin
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