#

## Stat3 (D3Z2G) Rabbit mAb (PE Conjugate) Stat3 (D3Z2G) Rabbit mAb (PE Conjugate)



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P40763	Entrez-Gene Id: 6774	
Product Usage Information		<b>Application</b> 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 antibodies. Protect from light. Do not freeze.				
Specificity/Sensit	ivity	Stat3 (D3Z2G) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Stat3 protein.				
Species predicted based on 100% se homology		Bovine, Pig				
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly700 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 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 $\alpha$ (86 kDa) and Stat3 $\beta$ (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable that Stat3 $\beta$ lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8).				
Background Refe	rences	<ol> <li>Heim, M.H. (2001) J Recept Signal Transduct Res 19, 75-120.</li> <li>Takeda, K. et al. (1997) Proc Natl Acad Sci U S A 94, 3801-4.</li> <li>Catlett-Falcone, R. et al. (1999) Immunity 10, 105-15.</li> <li>Garcia, R. and Jove, R. (1998) J Biomed Sci 5, 79-85.</li> <li>Bromberg, J.F. et al. (1999) Cell 98, 295-303.</li> <li>Darnell, J.E. et al. (1994) Science 264, 1415-21.</li> <li>Ihle, J.N. (1995) Nature 377, 591-4.</li> <li>Wen, Z. et al. (1995) Cell 82, 241-50.</li> <li>Yokogami, K. et al. (2000) Curr Biol 10, 47-50.</li> <li>Biethahn, S. et al. (1999) Exp Hematol 27, 885-94.</li> </ol>				
Species Reactivit	y	Species reactivity is dete	rmined by testing in at lea	ast one approved app	lication (e.g., western blot).	
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity I	Key	H: Human M: Mouse R: Rat Mk: Monkey				
Trademarks and	Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks are more information.	the property of their resp	oective owners. Visit o	cellsignal.com/trademarks for	

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.