56554

#

## Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit



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.

<b>Applications:</b> W, IP, IF-IC, FC-FP, ChIP	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 110	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P42226	<b>Entrez-Gene Id:</b> 6778		
Product Usage Information		For optimal ChIP results, use 5 μl of antibody and 10 μg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.						
		Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixed Chromatin IP		<b>Dilution</b> 1:1000 1:50 1:200 - 1:800 1:50 - 1:200 1:100				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #46186.						
Specificity/Sen	sitivity	Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit mAb recognizes endogenous levels of Stat6 protein only when phosphorylated at Tyr641. Weak cross-reactivity with other tyrosine-phosphorylated proteins has been observed in some cell lines.						
Species predict based on 100% homology		Rat						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Tyr641 of human Stat6 protein.						
Background		Upon activation by Janus kinases, Stat6 translocates to the nucleus where it regulates cytokine-induced gene expression. Stat6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13 (1-4). In addition, Stat6 is activated by IFN-α in B cells, where it forms transcriptionally active complexes with Stat2 and p48 (5,6). Protein phosphatase 2A is also involved in regulation of IL-4- mediated Stat6 signaling (7).						
Background Re	eferences	1. Nelms, K. et al. (1999) <i>Ann. Rev. Immunol.</i> 17, 701-738. 2. Malabarba, M.G. et al. (1996) <i>Biochem. J.</i> 319, 865-872. 3. Hou, J. et al. (1994) <i>Science</i> 265, 1701-1706. 4. Quelle, F.W. et al. (1995) <i>Mol. Cell. Biol.</i> 15, 3336-3343. 5. Takeda, K. et al. (1996) <i>Nature</i> 380, 627-630. 6. Gupta, S. et al. (1999) <i>J. Immunol.</i> 163, 3834-3841. 7. Woetmann, A. et al. (2003) <i>J. Biol. Chem.</i> 278, 2787-2791.						
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	ey	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-</b> <b>FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>ChIP:</b> Chromatin IP						
Cross-Reactivit	у Кеу	H: Human M: Mouse						
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						

Alexa Fluor is a registered trademark of Life Technologies Corporation.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

## **Limited Uses**

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.