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Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit mAb (Alexa Fluor® 647 Conjugate)


Cell Signaling
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orders@cellsignal.com

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

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| Applications: FC-FP | Reactivity: H M | Sensitivity: Endogenous | Source/Isotype: Rabbit IgG | UniProt ID: #P42226 | Entrez-Gene Id: 6778 |
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| 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 | Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit mAb (Alexa Fluor® 647 Conjugate) 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 predicted to react based on 100% sequence homology: | Rat | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Tyr641 of human Stat6 protein. | |
| Product Description | This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometry in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Stat6 (Tyr641) (D8S9Y) Rabbit mAb #56554. | |
| 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 References | <ol style="list-style-type: none"> Nelms, K. et al. (1999) <i>Ann. Rev. Immunol.</i> 17, 701-738. Malabarba, M.G. et al. (1996) <i>Biochem. J.</i> 319, 865-872. Hou, J. et al. (1994) <i>Science</i> 265, 1701-1706. Quelle, F.W. et al. (1995) <i>Mol. Cell. Biol.</i> 15, 3336-3343. Takeda, K. et al. (1996) <i>Nature</i> 380, 627-630. Gupta, S. et al. (1999) <i>J. Immunol.</i> 163, 3834-3841. Woetmann, A. et al. (2003) <i>J. Biol. Chem.</i> 278, 2787-2791. | |

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| 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: 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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