

# Phospho-Stat6 (Tyr641) (G12) rabbit mAb SureLight 488 conjugate

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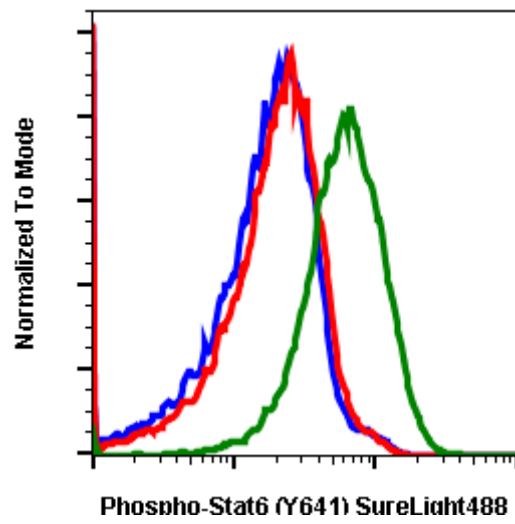
**Catalog:** #1150

**Store at:** 2-8°C

*For Research Use Only. Not For Use In Diagnostic Procedures.*

| Applications   | Detection | Clonality  | Isotype     |
|----------------|-----------|------------|-------------|
| Flow Cytometry | N/A       | Monoclonal | Rabbit IgGk |

|                           |   |
|---------------------------|---|
| <b>Format:</b>            | SureLight 488   |
| <b>Cross Reactivity:</b>  | Predicted to work with mouse, rat and other homologues.   |
| <b>Formulation:</b>       | 1X PBS, 0.09% NaN <sub>3</sub> , 0.2% BSA   |
| <b>Preparation:</b>       | Protein A+G   |
| <b>Reactivity:</b>        | Human,Mouse   |
| <b>Recommended Usage:</b> | For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.   |
| <b>Immunogen:</b>         | A synthetic phospho-peptide corresponding to residues surrounding Tyr641 of human phospho Stat6   |
| <b>Description:</b>       | The transcription factor Stat6 is a member of the signal transducers and activators of transcription (STAT) family of proteins. Stat6 is the only member of this family that is activated by interleukin-4 (IL-4), after which Stat6 is both tyrosine- and serine-phosphorylated by Jak kinases. The consensus Stat6 binding site TTCN4GAA is found in the promoters of many genes regulated by IL-4. In T lymphocytes, Stat6 is required for differentiation into Th2 cells in response to IL-4. Stat6 may play a role in solid tumorigenesis; a large immunohistochemistry study of Stat6 expression in over 2,000 tumor samples confirmed strong nuclear staining. |
| <b>References:</b>        | Kaplan MH, Schindler U, Smiley ST, and Grusby MJ. (1996) Immunity. 4:313-319.<br>Demicco EG, Harms PW, Patel RM, et al. (2015) American Journal of Clinical Pathology. 143:672-682.<br>Wick KR, and Berton MT. (2000) Molecular Immunology. 37:641-652.   |



Flow cytometric analysis of U937 cells untreated cells stained with secondary antibody as negative control (blue) or untreated (red) or treated with IFNα and IL-4 (green) using Phospho-Stat6 (Tyr641)-SureLight 488 antibody STAT6Y641-G12 SureLight 488. Cat. #1150.