

# Phospho-Stat6 (Tyr641) (G12) rabbit mAb

www.abwizbio.com

Support: info@abwizbio.com

Order: sales@abwizbio.com

## #1146

Store at: -20°C

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

Applications	Detection	Clonality	Isotype
Flow Cytometry, WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

**Format:** Unconjugated

**Cross Reactivity:** Predicted to work with mouse, rat and other homologues.

**Formulation:** 1X PBS, 0.02% NaN<sub>3</sub>, 50% Glycerol, 0.1% BSA

**Preparation:** Protein A+G

**Reactivity:** Human, Mouse

### Recommended

**Usage:** 1µg/mL ? 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

**Immunogen:** A synthetic phospho-peptide corresponding to residues surrounding Tyr641 of human phospho Stat6

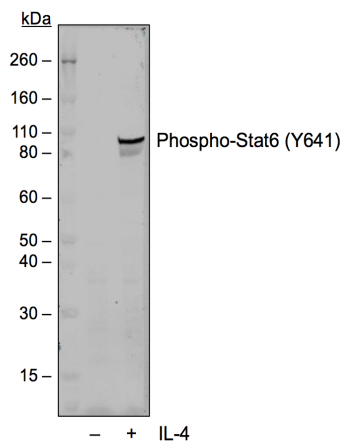
**Description:** The transcription factor Stat6 is a member of the signal transducers and activators of transcription (STAT) family of proteins. Stat6 is the only member of this family that is activated by interleukin-4 (IL-4), after which Stat6 is both tyrosine- and serine-phosphorylated by Jak kinases. 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.

### References:

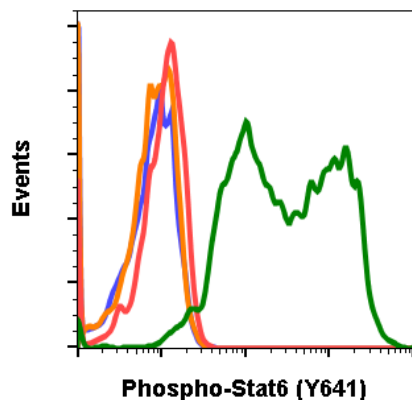
Kaplan MH, Schindler U, Smiley ST, and Grusby MJ. (1996) Immunity. 4:313-319.

Demico EG, Harms PW, Patel RM, et al. (2015) American Journal of Clinical Pathology. 143:672-682.

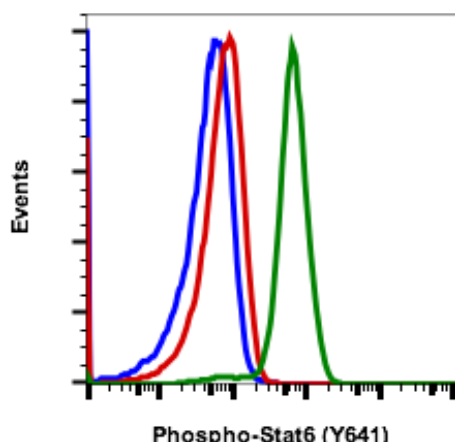
Wick KR, and Berton MT. (2000) Molecular Immunology. 37:641-652.



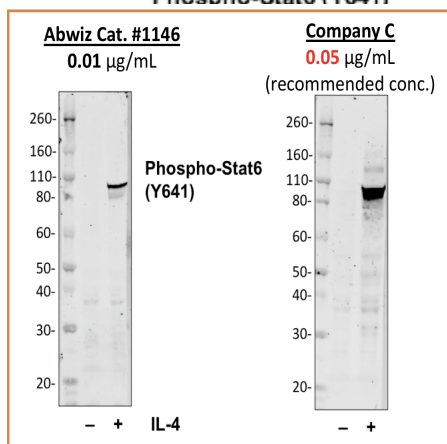
Western blot analysis of Daudi cell extract untreated or treated with IL-4 using 0.01  $\mu\text{g/mL}$  Phospho-Stat6 (Tyr641) antibody Stat6Y641-G12. Cat. #1146.



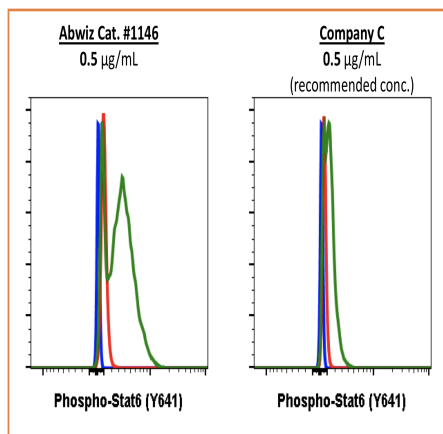
Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.1  $\mu\text{g/mL}$  of isotype control Cat. #2141 (orange) or treated with imatinib (red) or with pervanadate (green) using Phospho-Stat6 (Tyr641) antibody Stat6Y641-G12 at 0.1  $\mu\text{g/mL}$ . Cat #1146.



Flow cytometric analysis of U937 cells secondary antibody only negative control (blue) or untreated (red) or treated with IFN $\alpha$  and IL-4 (green) using 0.1  $\mu\text{g/mL}$  Phospho-Stat6 (Tyr641) antibody Stat6Y641-G12. Cat. #1146.



Western blot analysis of Daudi cell extract untreated or treated with IL-4 using 0.01  $\mu\text{g/mL}$  Phospho-Stat6 (Tyr641) antibody Stat6Y641-G12 Cat. #1146 or Company C antibody at 0.05  $\mu\text{g/mL}$  (manufacturer's recommended concentration) developed using the same exposure.



Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with IL-4 (green) using Phospho-Stat6 (Y641) antibody Stat6Y641-G12 (Abwiz Cat. #1146) or Company C antibody at 0.5 µg/mL (manufacturer's recommended concentration).