

## 12-4017: Phospho-Stat6 (Tyr641) (Clone: G12) rabbit mAb

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	Stat6Y641-G12
<b>Application :</b>	FACS,WB
<b>Reactivity :</b>	Human, Mouse
<b>Conjugate :</b>	Unconjugated
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Signal transducer and activator of transcription 6, IL-4 Stat
<b>Isotype :</b>	Rabbit IgG1k
<b>Immunogen Information :</b>	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.

### Product Info

<b>Amount :</b>	20 $\mu$ l / 200 $\mu$ l
<b>Content :</b>	1X PBS, 0.02% NaN <sub>3</sub> , 50% Glycerol, 0.1% BSA
<b>Storage condition :</b>	Store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

1  $\mu$ g/mL - 0.001  $\mu$ g/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

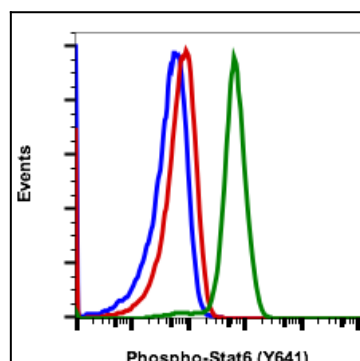


Fig-1: Flow cytometric analysis of U937 cells secondary antibody only negative control (blue) or untreated (red) or treated with IFN $\alpha$  and IL-4 (green) using 0.1  $\mu$ g/mL Phospho-Stat6 (Tyr641) antibody Stat6Y641-G12.

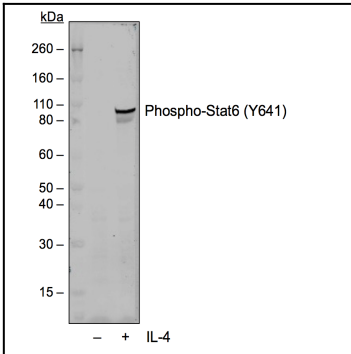


Fig 2 : Western blot analysis of Daudi cell extract untreated or treated with IL-4 using 0.01µg/mL Phospho-Stat6 (Tyr641) antibody Stat6Y641-G12.

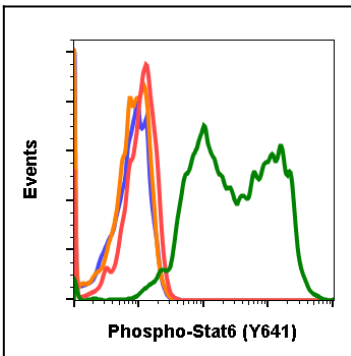


Fig-3: Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control (orange) or treated with imatinib (red) or with pervanadate (green) using Phospho-Stat6 (Tyr641) antibody Stat6Y641-G12 at 0.1 µg/mL.

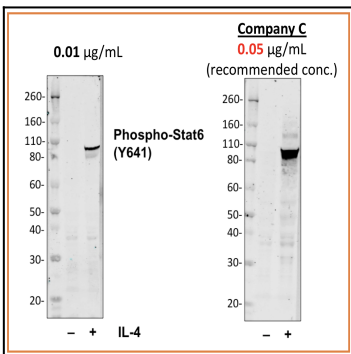


Fig-4: Western blot analysis of Daudi cell extract untreated or treated with IL-4 using 0.01 µg/mL Phospho-Stat6 (Tyr641) antibody Stat6Y641-G12 or Company C antibody at 0.05 µg/mL (manufacturer's recommended concentration) developed using the same exposure.

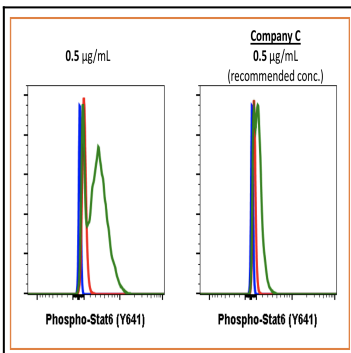


Fig-5: Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with IL-4 (green) using Phospho-Stat6 (Y641) antibody Stat6Y641-G12 or Company C antibody at 0.5 µg/mL (manufacturer's recommended concentration).