9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

# 12-4261: Phospho-Stat5 (Tyr694) (Clone: G11) rabbit mAb PE conjugate

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | Stat5Y694-G11 |
| **Application :** | FACS |
| **Reactivity :** | Human, Mouse |
| **Conjugate :** | PE |
| **Format :** | Conjugated |
| **Alternative Name :** | Signal transducer and activator of transcription 5A, STAT5A, Signal transducer and activator of transcription 5B, STAT5B |
| **Isotype :** | Rabbit IgG1k |
| **Immunogen Information :** | A synthetic phospho-peptide corresponding to residues surrounding Tyr695 of human phospho Stat5 |

## Description

Stat5 activation occurs in response to many ligands including prolactin, IL-2, growth hormone, and GM-CSF. Tyr694 phosphorylation is obligatory activation of Stat5 (1,2), and is mediated by Src upon erythropoietin stimulation (3). Phospho Stat5 is constitutively active in some leukemic cell types (4), and phospho Stat5 is found in some endothelial cells when treated with IL-3, suggesting its involvement in cell motility and angiogenesis (5). Stat5 has been shown to be encoded by two separate genes, Stat5a and Stat5b, which share over 90% amino acid sequence identity. In different cell types, Stat5a and Stat5b are independently regulated and activated. For example, interferon treatment predominantly activates Stat5a in U937 cells and Stat5b in HeLa cells (6).

## Product Info

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| **Amount :** | 10 Tests / 100 Tests |
| **Content :** | 1X PBS, 0.09% NaN3, 0.2% BSA |
| **Storage condition :** | Store at 2-8°C. Avoid repeated freeze and thaw cycles. |

## Application Note

For flow cytometric staining, the suggested use of this reagent is 5 ÃÂµL per million cells or 5 ÃÂµL per 100 ÃÂµL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

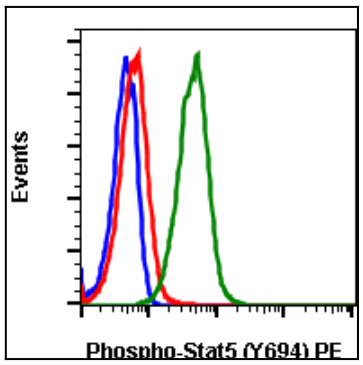


Fig-1: Flow cytometric analysis of NIH3T3 cells unstained and treated with imatinib as negative control (blue) or stained and treated with imatinib (red) or treated with pervanadate (green) using Phospho-Stat5 (Tyr694) antibody Stat5Y694-G11 PE conjugate.