

# PE Rabbit anti-Human Phospho-STAT6-Y641 mAb

**Catalog No.: AP1642**

## Basic Information

**Observed MW****Calculated MW****Category**

Primary antibody

**Applications**

FC (intra)

**Cross-Reactivity**

Human

**CloneNo number**

ARC78280

**Conjugate**

PE. Ex:565nm. Em:574nm.

## Background

The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by receptor-associated kinases and subsequently form homo- or heterodimers that translocate to the nucleus, where they function as transcriptional activators. This protein plays a central role in mediating IL-4-induced biological responses. It has been shown to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL-4. Knockout studies in mice have demonstrated that this gene is involved in the differentiation of T helper 2 (Th2) cells, the expression of cell surface markers, and immunoglobulin class switching. Alternative splicing generates multiple transcript variants. Upon activation by Janus kinases, Stat6 translocates to the nucleus to regulate cytokine-induced gene expression. Stat6 is activated via phosphorylation at Tyr641 and is essential for cellular responses to IL-4 and IL-13. Additionally, Stat6 is activated by IFN- $\alpha$  in B cells and forms a transcriptionally active complex with Stat2 and p48. Protein phosphatase 2A is also involved in regulating IL-4-mediated Stat6 signaling.

## Recommended Dilutions

**FC (intra)** 5  $\mu$ l per  $10^6$  cells in 100  $\mu$ l volume

## Immunogen Information

**Gene ID**

6778

**Swiss Prot**

P42226

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

HIES6; STAT6B; STAT6C; D12S1644; IL-4-STAT

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

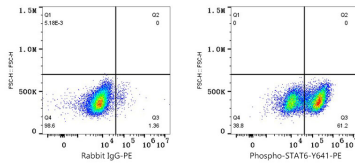
**Storage**

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data

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Flow cytometry: 1X10<sup>6</sup> Daudi cells (untreated, left) and Daudi cells (serum starved for 6 hours, then treated with 100 ng/ml IL-4 for 15 minutes, right) were intracellularly-stained with PE Rabbit IgG isotype control (A24172, 5 µl/Test, left) or PE Rabbit anti-Human Phospho-STAT6-Y641 mAb (AP1642, 5 µl/Test).