## PE/Cy7 anti-STAT6 Phospho (Tyr641)

Catalog # / Size: 4030065 / 25 tests

4030070 / 100 tests

**Clone:** A15137E

**Isotype:** Mouse IgG1, κ

Immunogen: Human STAT6 peptide phosphorylated

at Tyr 641

Reactivity: Human

**Preparation:** The antibody was purified by affinity

chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7

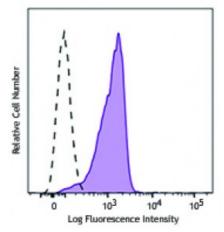
and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stimulated with (filled histogram) or without (open histogram) IL-4 for 15 minutes fixed with Fixation Buffer, permeabilized with True-Phos™ Perm Buffer, and intracellularly stained with STAT6 Phospho (Tyr 641

## **Applications:**

**Applications:** Flow Cytometry

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**Recommended**Each lot of this antibody is quality control tested by intracellular flow cytometry.

For flow cytometric staining, the suggested use of this reagent is 5 microL per

For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that

the reagent be titrated for optimal performance for each application.

**Application** Human STAT6 has three isoforms; the molecular weights are 94, 82 and 74kD.

**Notes:** The immunogen (phosphorylated peptide) is shared by these three isoforms.

Clone A15137E does not react with mouse.

**Description:** STAT6 is a member of the signal transducer and activator of transcription (STAT)

family, activating gene expression in response to IL-4 and IL-13 stimulation. Upon cytokine stimulation, the receptor is phosphorylated by the associated Janus Kinases (Jak), followed by recruiting cytoplasmic STAT6. The Tyr641 residue of

STAT6 is, in turn, phosphorylated by Jak. Phosphorylated STAT6 forms

homodimers, transclocates to the nucleus, and regulates transcription of target genes. STAT6 plays crucial roles in differentiation of T helper 2 (Th2) cells, class switch of immunoglobulins in B cells, expression of cell surface markers such as

MHC class II, and the development of allergic inflammation.

Antigen 1. Goenka S, et al. 2011. Immunol. Res. 50:87.

**References:** 2. Wurster AL, et al. 2000. Oncogene 19:2577.

3. Akira S. 1999. Stem Cells 17:138.

4. Zamorano J, et al. 2005. J. Immunol.