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## 12-4233: Phospho-Stat4 (Tyr693) (Clone: F6) rabbit mAb PE conjugate

Clonality: Monoclonal
Clone Name: Stat4Y693-F6

**Application:** FACS

**Reactivity:** Human, Mouse

Conjugate: PE

Format: Conjugated

**Alternative Name :** Signal transducer and activator of transcription 4

**Isotype:** Rabbit IgG1k

**Immunogen Information :** A synthetic phospho-peptide corresponding to residues surrounding Tyr693 of human

phospho Stat4

## **Description**

In response to IL-12 binding, the IL-12 receptor activates the Jak kinases, which phosphorylate tyrosine residues of IL-12RB2. These phosphorylated receptors recruit Stat4 through its SH2 domain, whereupon Stat4 is phosphorylated at Tyr693 in its C-terminal transactivation domain. Phosphorylation promotes Stat4 homodimerization and translocation to the nucleus, where it promotes gene transcription. The N-terminal domain of Stat4 appears to be required for maximal stabilization and for the binding of Stat4 dimers to lower-affinity DNA binding sites. Stat4-deficient mice have demonstrated that this gene is required to both promote Th1 development and inhibit Th2 differentiation due to disabling IL-12 receptor-mediated responses.

## **Product Info**

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  $\tilde{A} \square \hat{A} \mu L$  per million cells or 5  $\tilde{A} \square \hat{A} \mu L$  per 100  $\tilde{A} \square \hat{A} \mu L$  of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

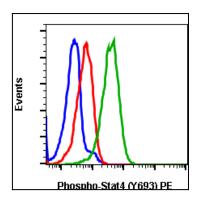


Fig-1: Flow cytometric analysis of K562 cells unstained imatinib treated cells negative control (blue) or stained treated with imatinib (red) or treated with IFNa + IL-4 + pervanadate (green) using phospho-Stat4 (Tyr693) antibody Stat4Y693-F6 PE conjugate.