

ABflo® 488 Rabbit anti-Human Phospho-STAT6-Y641 mAb

Catalog No.: AP1610

Basic Information

Observed MW

Calculated MW

94 kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC78280

Conjugate

ABflo® 488. Ex:491nm. Em:516nm.

Recommended Dilutions

FC 5 µl per 10⁶ cells in
100 µl volume

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-α 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.

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

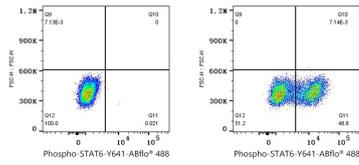
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

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

Validation Data



Flow cytometry: 1X10⁶ Daudi (untreated, left) and Daudi (serum starved for 6h, then treated with 100ng/ml IL-4 for 15min, right) were intracellularly-stained with ABflo® 488 Rabbit anti-Human Phospho-STAT6-Y641 mAb (AP1610, 5 µl/Test).