

## Anti-STAT6 Antibody (5D324)

## Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5D324
Purification:	Protein A

## Applications

Verified Activity:	Flow cytometric analysis of Human Stat6 expression on HT-29 cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human Stat6, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	FCM: 1:25-1:100

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human STAT6 protein (TMPY-02603)
Antigen Species:	Human
Synonyms:	STAT6B;signal transducer and activator of transcription 6, interleukin-4 induced;STAT6C;IL-4-STAT;D12S1644
Biology Area:	Apoptosis Transcription Factors and Regulators

## Research Background

Signal transducer and activator of transcription 6 (STAT6) is a transcription factor that is activated by interleukin-4 (IL-4)-induced tyrosine phosphorylation and mediates most of the IL-4-induced gene expression. STAT6 plays a central role in exerting interleukin-4 (IL-4) mediated biological responses and is found to induce the expression of BCL2L1/BCL-XL, which is responsible for the anti-apoptotic activity of IL4. Transcriptional activation by STAT6 requires the interaction with coactivators like p300 and the CREB-binding protein (CBP). NF-κB and tyrosine-phosphorylated Stat6 can directly bind each other in vitro and in vivo, which suggests that the direct interaction between Stat6 and NF-κB may provide a basis for synergistic activation of transcription by IL-4 and activators of NF-κB.

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