

## Recombinant Human STAT6 Protein, His-tagged

**Cat. No.** STAT6-151H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Human signal transducer and activator of transcription 6, interleukin-4 induced(STAT6) protein, transcript variant 2(NM_003153), with a His tag, was expressed in human cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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 the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | Purified protein formulated in a sterile solution of TBS buffer, pH7.31, without any preservatives.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 23.9kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | Endotoxin level is < 0.1 ng/g of protein (<1EU /g)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|               |                                                  |
|---------------|--------------------------------------------------|
| <b>Purity</b> | >90% by SDS-PAGE gel and Coomassie Blue staining |
|---------------|--------------------------------------------------|

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| <b>Applications</b> | Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies. |
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## GENE INFORMATION

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| <b>Gene Name</b> | STAT6 signal transducer and activator of transcription 6, interleukin-4 induced [ Homo sapiens ] |
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| <b>Official Symbol</b> | STAT6 |
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| <b>Synonyms</b> | STAT6; signal transducer and activator of transcription 6, interleukin-4 induced; signal transducer and activator of transcription 6; D12S1644; IL 4 STAT; STAT, interleukin4-induced; transcription factor IL-4 STAT; STAT6B; STAT6C; IL-4-STAT; |
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| <b>Gene ID</b> | 6778 |
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| <b>mRNA Refseq</b> | NM_001178078 |
|--------------------|--------------|

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|-----------------------|--------------|
| <b>Protein Refseq</b> | NP_001171549 |
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| <b>MIM</b> | 601512 |
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| <b>UniProt ID</b> | P42226 |
|-------------------|--------|

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