# Recombinant Human STAT3, GST-tagged

**Cat. No.** STAT3-1496H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full-length human STAT3 was expressed by baculovirus in*Sf9*insect cells using an N-terminal GST tag. MW = 120 kDa. |
| **Species** | Human |
| **Source** | Sf9 Cells |
| **Description** | STAT3 is a member of the signal transducers and activators of transcription (STAT) family of proteins that carry out a dual function: signal transduction and activation of transcription. STAT3 is widely expressed and becomes activated through phosphorylation on tyrosine as a DNA binding protein in response to a variety of stimuli such as EGF, IL-6, PDGF, IL-2 and G-CSF. This phosphoprotein forms homodimers as well as heterodimers with other members of the STAT family and translocate to the nucleus in order to modulate the transcription of various genes. |
| **Sequence** | Full-length. |
| **Applications** | Kinase Assay, Western Blot. |
| **Storage And Stability** | Store product at -70℃. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

## GENE INFORMATION

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| **Gene Name** | STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [ Homo sapiens ] |
| **Synonyms** | STAT3; signal transducer and activator of transcription 3 (acute-phase response factor); APRF; HIES; FLJ20882; MGC16063; signal transducer and activator of transcription 3; DNA-binding protein APRF; acute-phase response factor |
| **Gene ID** | 6774 |
| **mRNA Refseq** | NM_003150 |
| **Protein Refseq** | NP_003141 |
| **MIM** | 102582 |
| **UniProt ID** | P40763 |
| **Chromosome Location** | 17q21.31 |
| **Pathway** | Acute myeloid leukemia; Adipocytokine signaling pathway; Chemokine signaling pathway; Jak-STAT signaling pathway; Pancreatic cancer; Pathways in cancer; Signaling by PDGF; Signalling by NGF |
| **Function** | calcium ion binding; hematopoietin/interferon-class (D200-domain) cytokine receptor signal transducer activity; protein dimerization activity; protein kinase binding; sequence-specific DNA binding; signal transducer activity; transcription activator activity; transcription factor activity; transcription factor binding |
| **PDB rendering based on 1bg1.** | |

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