

## Recombinant Human STAT2, GST-tagged

**Cat. No.** STAT2-7056H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length human STAT2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | Full length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | STAT2 (Signal transducer and activator of transcription) is a family member of STAT transcription factors that are implicated in programming gene expression in biological events as diverse as embryonic development, programmed cell death, organogenesis, innate immunity, adaptive immunity and cell growth regulation. JAKs can phosphorylate and activate STATs. Activation of the JAK/STAT pathway in response to cytokine action can lead to regulation of gene expression during proliferation and differentiation of the immune cells. STATs have been shown to be involved in inflammation, autoimmune and allergic diseases. |
| <b>Form</b>             | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | ~138 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>        | Kinase Assay, Western Blot                                                                                                                                                                                                                                             |
| <b>Storage</b>             | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.                                                                                                       |
| <b>Concentration</b>       | 0.2 µg/µl                                                                                                                                                                                                                                                              |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>           | STAT2 signal transducer and activator of transcription 2, 113kDa [ Homo sapiens ]                                                                                                                                                                                      |
| <b>Official Symbol</b>     | STAT2                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | STAT2; signal transducer and activator of transcription 2, 113kDa; signal transducer and activator of transcription 2, 113kD; signal transducer and activator of transcription 2; STAT113; interferon alpha induced transcriptional activator; P113; ISGF-3; MGC59816; |
| <b>Gene ID</b>             | 6773                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_005419                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_005410                                                                                                                                                                                                                                                              |
| <b>MIM</b>                 | 600556                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | P52630                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 12q13.2                                                                                                                                                                                                                                                                |

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**Pathway**

Adipogenesis, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Hepatitis C, organism-specific biosystem;

**Function**

DNA binding; calcium ion binding; protein binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;

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