

## Active Recombinant Human STAT2, His-tagged

Cat. No. STAT2-2515H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human His tagged STAT2 is expressed in <i>abaculovirus</i> system and purified by affinity chromatography in combination with FPLC chromatography. 110 kDa.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	Signal transducer and activator of transcription (STAT) proteins play a crucial role in the regulation of gene expression by mediating transcriptional responses to many cytokines and growth factors. The antiviral responses of IFN- $\alpha/\beta$ rely on the transcriptional activities of STAT1 and STAT2 proteins. The chromatin immunoprecipitation and DNA microarray analysis (Chip-chip) demonstrated that STAT2 (and STAT1) bound to chromosome 22 after IFN stimulation. STAT2 activity can be regulated by tyrosine phosphorylation that is catalyzed by a receptor associated JAK kinase.
<b>Applications</b>	Recombinant STAT2 (1-851) can be used for 1) in vitro transcription; 2) gel mobility shift assay and 3) for protein-protein interaction assay.
<b>Transcript Variant</b>	This variant represents the longer transcript and encodes the longer isoform.
<b>Activity</b>	1 unit equals 1 nanogram of purified protein.
<b>Quality Control</b>	The purified protein is greater than 95% homogeneous and contains no detectable

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proteases, DNase and RNase activity.

**Reagents Supplied**

1x dilution buffer A: 20 mM Tris-Cl (pH 8.0), 20% Glycerol, 100 mM KCl, 0.2 mM EDTA and 1mM DTT.

**Storage Conditions**

Store at -80°C.

**Pathways**

Chemokine signaling pathway; Jak-STAT signaling pathway

## GENE INFORMATION

**Gene Name**

STAT2 signal transducer and activator of transcription 2, 113kDa [ Homo sapiens ]

**Synonyms**

STAT2; signal transducer and activator of transcription 2, 113kDa; P113; ISGF-3; STAT113; MGC59816; interferon alpha induced transcriptional activator; Signal transducer and activator of transcription 2; p113; signal transducer and activator of transcription 2, 113kD

**Gene ID**

6773

**mRNA Refseq**

NM\_005419

**Protein Refseq**

NP\_005410

**MIM**

600556

**UniProt ID**

P52630

**Chromosome  
Location**

12q13.3

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**Function**

calcium ion binding; hematopoietin/interferon-class (D200-domain) cytokine receptor signal transducer activity; protein binding; signal transducer activity; transcription factor activity

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