

Active Recombinant Human STAT2, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human His tagged STAT2 is expressed in <i>abaculovirus</i> system and purified by affinity chromatography in combination with FPLC chromatography. 110 kDa.
Species	Human
Source	Insect Cells
Description	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- α/β 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.
Applications	Recombinant STAT2 (1-851) can be used for 1) in vitro transcription; 2) gel mobility shift assay and 3) for protein-protein interaction assay.
Transcript Variant	This variant represents the longer transcript and encodes the longer isoform.
Activity	1 unit equals 1 nanogram of purified protein.
Quality Control	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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