

Recombinant Human STAT2, His-tagged

Cat. No. STAT2-8474H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human STAT2, fused with His tag, was expressed in Sf21 Cells.
Species	Human
Source	Sf21 Cells
Description	The 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 (cat# R1072) 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 .
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
AA Sequence	MAQWEMLQNL DSPFQDQLHQ LYSHSLLPVD IRQYLAVWIE DQNWQEAALG SDDSKATMLF FHFLDQLNVE CGRCSQDPES LLLQHNLKRF CRDIQPFSQD PTQLAEMIFN LLLLEEKRILI QAQRAQLEQG EPVLETPVES QQHEIESRIL DLRAMMEKLV KSIQLKDQQ DVFCFRYKIQ AKGKTPSLDP HQTKEQKILQ ETLNELDKRR KEVLDASKAL LGRLTTLIEL LLPKLEEWKA QQQKACIRAP IDHGLEQLET WFTAGAKLLF HLRQLLKELK GLSCLVSYQD DPLTKGVDLR NAQVTELLQR LLHRAFFVET QPCMPQTPHR PLILKTGSKF TVRTRLLVRL

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QEGNESLTVE VSIDRNPPQL QGFRKFNILT SNQKTLTPEK GQSQGLIWDF
GYLTLVEQRS GGSGKGSNKG PLGVTEELHI ISFTVKYTYQ GLKQELKTD
LPVVIISNMN QLSIAWASVL WFNLLSPNLQ NQFFSNPPK APWSLLGPAL
SWQFSSYVGR GLNSDQLSML RNKLFQNCR TEDPLLSWAD FTKRESPPGK
LPFWTWLDKI LELVHDHLKD LWNDGRIMGF VRSRQERRLL KKTMSGTFL
RFSESSEGGI TCSWVEHQDD DKVLIYSVQP YTKEVLQSLP LTEIRHYQL
LTEENIPENP LRFLYPRIPR DEAFGCYYQE KVNLRQERRKY LKHRLIVSN
RQVDELQQPL ELKPEPELES LELELGLVPE PELSLDLEPL LKAGLDLGP
LESVLESTLE PVIEPTLCMV SQTVPEDQG PVSQPVPEPD LPCDLRHLNT
EPMEIFRNCV KIEEIMPNGD PLLAGQNTVD EVYVSRPSHF YTDGPLMPSD F

Purity >95% as determined by SDS-PAGE

Storage -80 °C

Concentration 800 µg/ml

Shipping Dry Ice

GENE INFORMATION

Gene Name [STAT2 signal transducer and activator of transcription 2, 113kDa \[Homo sapiens \]](#)

Official Symbol STAT2

Synonyms 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;

Gene ID [6773](#)

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mRNA Refseq	NM_005419
Protein Refseq	NP_005410
MIM	600556
UniProt ID	P52630
Chromosome Location	12q13.2
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;