

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	<p>MAQWEMLQNL DSPFQDQLHQ LYSHSLLPVD IRQYLAVWIE DQNWQEAALG SDDSKATMLF FHFLDQLNQE CGRCSQDPES LLLQHNLKRF CRDIQPFSQD PTQLAEMIFN LLLLEEKRILI QAQRAQLEQG EPVLETPVES QQHEIESRIL DLRAMMEKLV KSIQLKDQQ DVFCFRYKIQ AKGKTPSLDP HQTKEQKILQ ETLNELDKRR KEVLDASKAL LGRLTTLIEL LLPKLEEWKA QQQKACIRAP IDHGLEQLET WFTAGAKLLF HLRQLLKEKLG LSCLVSYQD DPLTKGVDLR NAQVTELLQR LLHRAFVVET QPCMPQTPHR PLILKTGSKF TVRTRLLVRL</p>

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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 VSRSQERRLL KKTMSGTFL
 RFSESSEGGI TCSWVEHQDD DKVLIYSVQP YTKEVLQSLP LTEIIRHYQL
 LTEENIPENP LRFLYPRIPR DEAFGCYYQE KVNLRQERRKY LKHRLIVVSN
 RQVDELQQPL ELKPEPELES LELELGLVPE PELSLDLEPL LKAGLDLGPE
 LESVLESTLE PVIEPTLCMV SQTVPEPDQG 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;

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