

Recombinant Full Length Human STAT3 Protein, GST-tagged

Cat. No. STAT3-507HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human full length STAT3 full-length ORF (1 a.a. - 769 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	769 amino acids
Description	<p>The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described.</p>
Molecular Mass	110.11 kDa
AA Sequence	MAQWNQLQQL DTRYLEQLHQ LYSDSFPMEL RQFLAPWIES QDWAYAASKE SHATLVFHNL LGEIDQQYSR FLQESNVLYQ HNLRRRIKQFL QSRYLEKPME

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IARIVARCLW EESRLLQTAA TAAQQGGQAN HPTAAVVTEK QQMLEQHLQD
 VRKRVQDLEQ KMKVVENLQD DDFDFNYKTLK SQGDMQDLNG NNQSVTRQKM
 QQLEQMLTAL DQMRRSIVSE LAGLLSAMEY VQKTLTDEEL ADWKRRQZIA
 CIGGPPNICL DRLENWITSL AESQLQTRQQ IKKLEELQQK VSYKGDPIVQ
 HRPMLLEERIV ELFRNLMKSA FVVERQPCMP MHPDRPLVIK TGVQFTTKVR
 LLVKFPELNY QLKIKVCIDK DSGDVAALRG SRKFNILGTN TKVMNMEESN
 NGSLSAEFKH LTLREQRCGN GGRANCDASL IVTEELHLIT FETEVYHQGL
 KIDLETHSLP VVVISNICQM PNAWASILWY NMLTNNPKNV NFFTKPPIGT
 WDQVAEVLWS QFSSTTKRGL SIEQLTTLAE KLLGPGVNYS GCQITWAKFC
 KENMAGKGFS FWVWLDNIID LVKKYILALW NEGYIMGFIS KERERAILST
 KPPGTFLRF SESSKEGGVT FTWVEKDISG KTQIQSVEPY TKQQLNMSF
 AEIIMGYKIM DATNILVSPL VYLYPDIPKE EAFGKYCRPE SQEHPEADPG
 AAPYLKTKFI CVTPTTCSNT IDLPMSPRTL DSLMQFGNNG EGAEPSAGGQ
 FESLTFDMEL TSECATSPM

Applications ELISA; WB-Re; AP; Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [Homo sapiens (human)]

Official Symbol STAT3

Synonyms STAT3; APRF; HIES; signal transducer and activator of transcription 3 (acute-phase response factor); signal transducer and activator of transcription 3; DNA-binding

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protein APRF; acute-phase response factor

Gene ID [6774](#)

mRNA Refseq [NM_003150](#)

Protein Refseq [NP_003141](#)

MIM [102582](#)

UniProt ID [P40763](#)

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