

Recombinant Human STAT3, GST-tagged

Cat. No. STAT3-282H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human STAT3 full-length ORF (1 a.a. - 769 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	110.11 kDa
AA Sequence	MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATL VFHNLLGEIDQQYSRFLQES NVLYQHNLRRRIKQFLQSRYLEKPMIARIVARCLWE E SRLLQTAATAAQGGQANHPTAAVVTEKQQMLEQHLQ DVRKRVQDLEQKMKVVE

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NLQDDDFDFNYKTLKSQGDMDLNGNNQSVTRQKMQQLEQMLTALDQMRRSIVSEL
 A G LLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLLENWITSLAESQLQT
 RQQIKKLEELQQKVSYSYKGDPI VQHRPMLLEERIVELFRNLMKSAFVVERQPCMPMHP
 DRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDS GDVAALRGSRKFNILGTNT
 KVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETE VY H
 QGLKIDLETHSLPVVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQV
 AEVLSWQFSSTTKRGLS IEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMA GKGFS
 FWVWLDNIIDLVKKYILALWNEGYIMGFISKERER AILSTKPPGTFLRRFSESSKEGG
 VTFTWVEKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNIL VSP LVYLYPD
 IPKEEAFGKYCRPESQEHPEADPGAAPYLKTKFICVTPTTCSNTIDLPMSPRTLDSLM
 QFGNNGEGAE PSAGGQFESLTFDMELTSECATSPM

Applications ELISA; WB-Re; AP; Array

Storage Store at -80°C. 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 protein APRF; acute-phase response factor

Gene ID 6774

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mRNA Refseq	NM_003150
Protein Refseq	NP_003141
MIM	102582
UniProt ID	P40763
Chromosome Location	17q21.31
Pathway	AGE/RAGE pathway; Acute myeloid leukemia; BDNF signaling pathway
Function	CCR5 chemokine receptor binding; RNA polymerase II repressing transcription factor binding; calcium ion binding

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