

## Recombinant Human STAT3, GST-tagged

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

### SPECIFICATION

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

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NLQDDDFDFNYKTLKSQGDMDLNGNNSVTRQKMQQLEQMLTALDQMRRSIVSEL  
 A G LLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLENWITSLAESQLQT  
 RQQIKKLEELQQKVSYKGDPI VQHRPMLLEERIVELFRNLMKSAFVVERQPCMPMHP  
 DRPLVIKTGVQFTTKVRLLVKFPENYQLKIKVCIDKDS GDVAALRGRSRKFNILGTNT  
 KVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETE VY H  
 QGLKIDLETHSLPVVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQV  
 AEVLSWQFSSTTKRGLS IEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMA GKGFS  
 FWVWLDNIIDLVKKYILALWNEGYIMGFISKERER AILSTKPPGTFLLRFSSESSKEGG  
 VTFTWVEKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNIL VSP LVYLYPD  
 IPKEEAFGKYCRPESQEHPEADPGAAPYLKTKFICVPTTCSNTIDLPMSPRTLDSLM  
 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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<b>mRNA Refseq</b>	NM_003150
<b>Protein Refseq</b>	NP_003141
<b>MIM</b>	102582
<b>UniProt ID</b>	P40763
<b>Chromosome Location</b>	17q21.31
<b>Pathway</b>	AGE/RAGE pathway; Acute myeloid leukemia; BDNF signaling pathway
<b>Function</b>	CCR5 chemokine receptor binding; RNA polymerase II repressing transcription factor binding; calcium ion binding

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