

Recombinant Human STAT3, GST-tagged

Cat. No. STAT3-281H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Wheat Germ

Product Overview Recombinant Human STAT3 (670 a.a. - 769 a.a.) fused with GST-tag at N-terminal, was expressed in vitro wheat germ expression system.

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 36.74 kDa

Sequence LVYLYPDIPKEEAFGKYCRPESQEHPEADPGAAPYLKTKFICVPTTCSNTIDLPMSP
RTLDSLMMQFGNNGEGAEPSSAGGQFESLTFDMELTSECATSPM

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Storage buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Applications	ELISA; WB
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.
OfficialSymbol	STAT3

GENE INFORMATION

Gene Name	STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [Homo sapiens]
Synonyms	STAT3; signal transducer and activator of transcription 3 (acute-phase response factor); APRF; HIES; FLJ20882; MGC16063; signal transducer and activator of transcription 3; DNA-binding protein APRF; acute-phase response factor
Gene ID	6774
mRNA Refseq	NM_003150
Protein Refseq	NP_003141
MIM	102582
UniProt ID	P40763
Chromosome Location	17q21.31

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Pathway	Acute myeloid leukemia; Adipocytokine signaling pathway; Chemokine signaling pathway; Jak-STAT signaling pathway; Pancreatic cancer; Pathways in cancer; Signaling by PDGF; Signalling by NGF
Function	calcium ion binding; hematopoietin/interferon-class (D200-domain) cytokine receptor signal transducer activity; protein dimerization activity; protein kinase binding; sequence-specific DNA binding; signal transducer activity; transcription activator activity; transcription factor activity; transcription factor binding
PDB rendering based on 1bg1.	