

Datasheet for ABIN6700517  
**STAT3 Protein (GST tag)**



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### Overview

Quantity:	20 µg
Target:	STAT3
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAT3 protein is labelled with GST tag.
Application:	Western Blotting (WB)

### Product Details

Purpose:	STAT3 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human STAT3 was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Purity:	>90%

### Target Details

Target:	STAT3
Alternative Name:	STAT3 ( <a href="#">STAT3 Products</a> )
Background:	Synonyms: APRF, FLJ20882, MGC16063, Signal transducer and activator of transcription 3, Acute-phase response factor Background: STAT3 is a member of the signal transducers and activators of transcription

## Target Details

(STAT) family of proteins that carry out a dual function: signal transduction and activation of transcription. STAT3 is widely expressed and becomes activated through phosphorylation on tyrosine as a DNA binding protein in response to a variety of stimuli such as EGF, IL-6, PDGF, IL-2 and G-CSF (1). This phosphoprotein forms homodimers as well as heterodimers with other members of the STAT family and translocate to the nucleus in order to modulate the transcription of various genes (2). STAT3 Protein is ideal for investigators involved in Signaling Proteins, Transcription Proteins, Apoptosis/Autophagy, Cancer, ERK/MAPK Pathway, Inflammation, and JAK/STAT Pathway research.

NCBI Accession:

[NM\\_139276](#)

Pathways:

[JAK-STAT Signaling](#), [RTK Signaling](#), [Interferon-gamma Pathway](#), [Neurotrophin Signaling Pathway](#), [Dopaminergic Neurogenesis](#), [Response to Growth Hormone Stimulus](#), [Carbohydrate Homeostasis](#), [Stem Cell Maintenance](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Feeding Behaviour](#), [CXCR4-mediated Signaling Events](#), [Signaling of Hepatocyte Growth Factor Receptor](#)

## Application Details

Application Notes:

Western\_Blot\_Dilution: User Optimized

Other: Kinase Assay-User Optimized

Application\_Note: STAT3 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~120 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Comment:

WB

Restrictions:

For Research Use only

## Handling

Format:

Liquid

Concentration:

0.2 µg/µL

Buffer:

STAT3 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage:

-80 °C

Storage Comment:

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

## Handling

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Expiry Date: 12 months

## Publications

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Product cited in: Li, Wu, Zeng, Zhang, Wang, Zhang, Lin: "ApoC1 promotes the metastasis of clear cell renal cell carcinoma via activation of STAT3." in: **Oncogene**, Vol. 39, Issue 39, pp. 6203-6217, (2021) ([PubMed](#)).

Zhu, Chang, Yan, Hu, Zeng, Zhou, Yuan, Ying, Cao, He, Yang: "AKR1C1 Activates STAT3 to Promote the Metastasis of Non-Small Cell Lung Cancer." in: **Theranostics**, Vol. 8, Issue 3, pp. 676-692, (2018) ([PubMed](#)).