

Datasheet for ABIN389665

anti-STAT3 antibody (pTyr705)[Go to Product page](#)**1** Image**6** Publications

Overview

Quantity:	400 µL
Target:	STAT3
Binding Specificity:	pTyr705
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This STAT3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y705 of human STAT3.
Clone:	RB05666
Isotype:	Ig Fraction
Predicted Reactivity:	B, M, Pig, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	STAT3
Alternative Name:	STAT3 (STAT3 Products)

Target Details

Background:	STAT3 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.
Molecular Weight:	88068
Gene ID:	6774
NCBI Accession:	NP_003141 , NP_644805 , NP_998827
UniProt:	P40763
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:	WB: 1:500
Restrictions:	For Research Use only

Handling

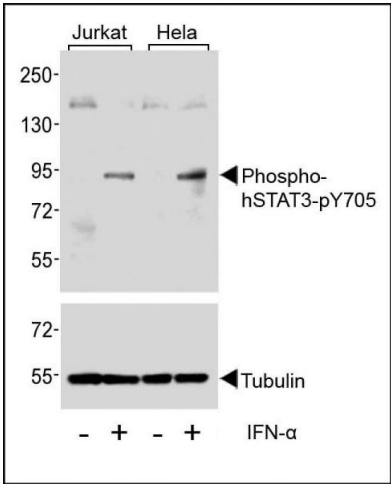
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Handling

Expiry Date: 6 months

Publications

- Product cited in: Yu, Zhang, Zhang, Li: "SOCS3 overexpression inhibits advanced glycation end product-induced EMT in proximal tubule epithelial cells." in: **Experimental and therapeutic medicine**, Vol. 13, Issue 6, pp. 3109-3115, (2017) ([PubMed](#)).
- Yan, Li, Li, DI, Shen, Zhang, Guo: "Expression of signal transducer and activator of transcription 3 and its phosphorylated form is significantly upregulated in patients with papillary thyroid cancer." in: **Experimental and therapeutic medicine**, Vol. 9, Issue 6, pp. 2195-2201, (2015) ([PubMed](#)).
- Yin, Du, Cao, Liu, Xu, Xiang: "Reg3g Promotes Pancreatic Carcinogenesis in a Murine Model of Chronic Pancreatitis." in: **Digestive diseases and sciences**, (2015) ([PubMed](#)).
- Zhao, Li, Liao, Luo, Shi, Feng, Chen: "Evodiamine Induces Apoptosis and Inhibits Migration of HCT-116 Human Colorectal Cancer Cells." in: **International journal of molecular sciences**, Vol. 16, Issue 11, pp. 27411-21, (2015) ([PubMed](#)).
- Miyachi, Kobayashi, Relja, Fujita, Iwasa, Gabazza, Takei: "Effect of suppressor of cytokine signaling on hepcidin production in hepatitis C virus replicon cells." in: **Hepatology research : the official journal of the Japan Society of Hepatology**, Vol. 41, Issue 4, pp. 364-74, (2011) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Western blot analysis of extracts from Jurkat and HeLa cells, untreated or treated with IFN-α(100 ng/mL), using Phospho-STAT3-p Antibody.