

Datasheet for ABIN1881850

anti-STAT3 antibody (C-Term)[Go to Product page](#)

1 Image

6 Publications

Overview

Quantity:	400 µL
Target:	STAT3
Binding Specificity:	AA 673-699, C-Term
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 peptide between 673-699 amino acids from the C-terminal region of human STAT3.
Clone:	RB41075
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:	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 Weight:	88068
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: 1:1000
Restrictions:	For Research Use only

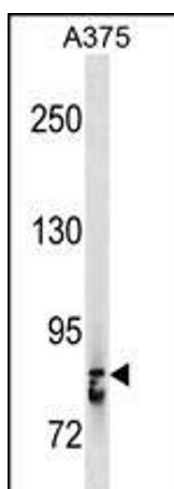
Handling

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
Expiry Date:	6 months

Publications

- Product cited in: Yin, Du, Cao, Liu, Xu, Xiang: "Reg3g Promotes Pancreatic Carcinogenesis in a Murine Model of Chronic Pancreatitis." in: **Digestive diseases and sciences**, (2015) ([PubMed](#)).
- Li, Cheung, Evans, Shaw: "Modulation of gene expression and tumor cell growth by redox modification of STAT3." in: **Cancer research**, Vol. 70, Issue 20, pp. 8222-32, (2010) ([PubMed](#)).
- Takaishi, Komohara, Tashiro, Ohtake, Nakagawa, Katabuchi, Takeya: "Involvement of M2-polarized macrophages in the ascites from advanced epithelial ovarian carcinoma in tumor progression via Stat3 activation." in: **Cancer science**, Vol. 101, Issue 10, pp. 2128-36, (2010) ([PubMed](#)).
- Li, Zou, Li: "Up-regulation of signal transducer and activator of transcription-3 is associated with aggravation of ulcerative colitis." in: **The surgeon : journal of the Royal Colleges of Surgeons of Edinburgh and Ireland**, Vol. 8, Issue 5, pp. 262-6, (2010) ([PubMed](#)).
- Schimke, Sawalle-Belohradsky, Roesler, Wollenberg, Rack, Borte, Rieber, Cremer, Maass, Dopfer, Reichenbach, Wahn, Hoenig, Jansson, Roesen-Wolff, Schaub, Seger, Hill, Ochs, Torgerson et al.: "Diagnostic approach to the hyper-IgE syndromes: immunologic and clinical key findings to differentiate hyper-IgE syndromes from atopic dermatitis...." in: **The Journal of allergy and clinical immunology**, Vol. 126, Issue 3, pp. 611-7.e1, (2010) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. STAT3 Antibody (C-term) (ABIN1881850 and ABIN2850425) western blot analysis in cell line lysates (35 μ g/lane). This demonstrates the STAT3 antibody detected the STAT3 protein (arrow).