

Datasheet for ABIN969420

anti-STAT3 antibody

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Overview

Quantity:	100 µL
Target:	STAT3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	STAT3 Antibody
Immunogen:	Purified recombinant fragment of STAT3 expressed in E. Coli.
Clone:	7G3H4
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	STAT3
Alternative Name:	STAT3 (STAT3 Products)
Background:	STAT3: signal transducer and activator of transcription 3 (acute-phase response factor). The protein encoded by this gene is a member of the STAT protein family. In response to cytokines

Target Details

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.

Gene ID: 6774

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: ELISA: 1/10000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % 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: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

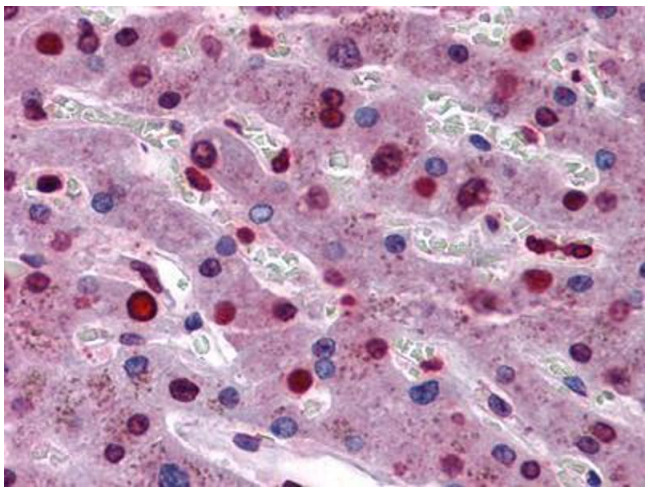
Publications

Product cited in: Han, Zhang, Chen, Jiang, Kong, Sun, Wu, Huang, Li, Liu: "Expression of seven gastric cancer-

associated genes and its relevance for Wnt, NF-kappaB and Stat3 signaling." in: **APMIS : acta pathologica, microbiologica, et immunologica Scandinavica**, Vol. 115, Issue 12, pp. 1331-43, (2008) ([PubMed](#)).

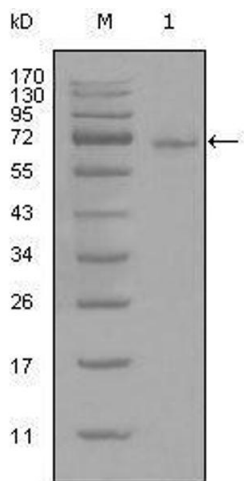
Park, Hong, Kim, Lee, Lim: "Significance of p-STAT3 expression in human colorectal adenocarcinoma." in: **Oncology reports**, Vol. 20, Issue 3, pp. 597-604, (2008) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human Liver tissues using STAT3 mouse mAb



Western Blotting

Image 2. Western blot analysis using STAT3 mouse mAb against full-length STAT3-His recombinant protein (1).