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Datasheet for ABIN732638

anti-STAT3 antibody (pTyr705)

4 Images

8 Publications

Overview

Quantity:	100 µL
Target:	STAT3
Binding Specificity:	pTyr705
Reactivity:	Human, Mouse, Rat, Rabbit, Pig, Chicken
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human STAT3 around the phosphorylation site of Tyr705
Isotype:	IgG
Cross-Reactivity:	Chicken, Human, Mouse, Pig, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	STAT3
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Target Details

Alternative Name: STAT3 ([STAT3 Products](#))

Background: Synonyms: APRF, HIES, ADMIO, Signal transducer and activator of transcription 3, Acute-phase response factor, STAT3

Background: Signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the interleukin-6 (IL-6)-responsive elements identified in the promoters of various acute-phase protein genes. Activated by IL31 through IL31RA. Cytoplasmic STAT3 represses macroautophagy by inhibiting EIF2AK2/PKR activity. Plays an important role in host defense in methicillin-resistant S.aureus lung infection by regulating the expression of the antimicrobial lectin REG3G (By similarity).

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: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

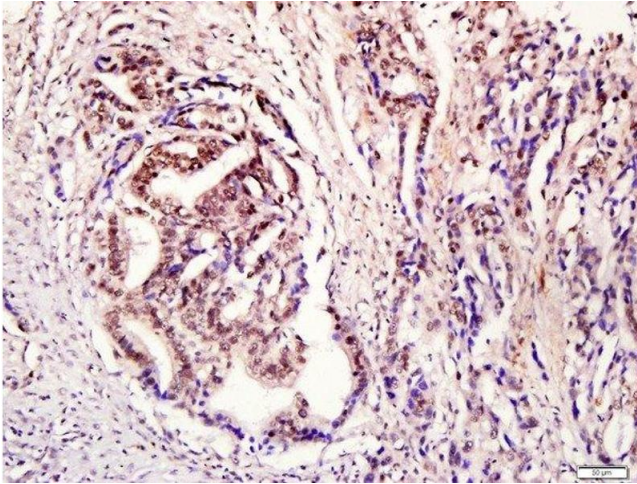
Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

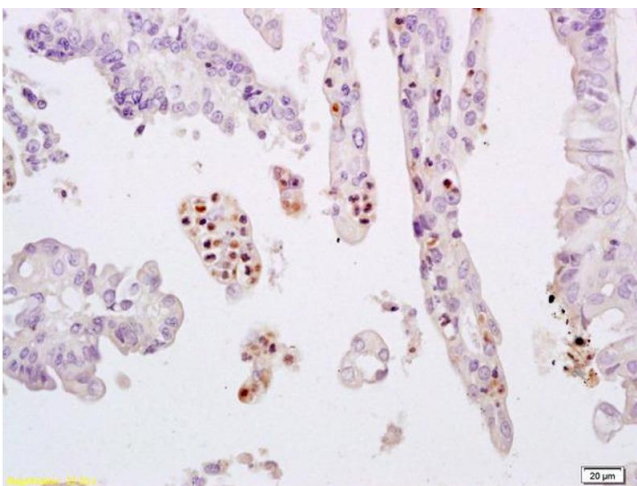
- Product cited in:
- Zhang, Zhang, Zuo, Wang, Zhang, Xu, Li, Chen: "JAK-STAT signaling regulation of chicken embryonic stem cell differentiation into male germ cells." in: **In vitro cellular & developmental biology. Animal**, Vol. 53, Issue 8, pp. 728-743, (2017) ([PubMed](#)).
- Gao, Wang, Sun, Li, Wang, Yi, Wang: "Morusin shows potent antitumor activity for human hepatocellular carcinoma in vitro and in vivo through apoptosis induction and angiogenesis inhibition." in: **Drug design, development and therapy**, Vol. 11, pp. 1789-1802, (2017) ([PubMed](#)).
- Badin, Sopariwala, Lorca, Narkar: "Muscle Arnt/Hif1 β Is Dispensable in Myofiber Type Determination, Vascularization and Insulin Sensitivity." in: **PLoS ONE**, Vol. 11, Issue 12, pp. e0168457, (2017) ([PubMed](#)).
- Lee, Lee, Kim, Kim, Yang, Jeong, Seong: "Radiation Inhibits Interleukin-12 Production via Inhibition of C-Rel through the Interleukin-6/ Signal Transducer and Activator of Transcription 3 Signaling Pathway in Dendritic Cells." in: **PLoS ONE**, Vol. 11, Issue 1, pp. e0146463, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



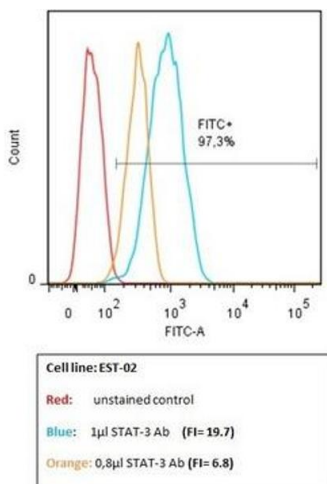
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded human stomach cancer tissue, Antigen retrieval by boiling in sodium citrate buffer(pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with Rabbit Anti-STAT3 (Tyr705) Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated secondary and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human breast carcinoma labeled with Anti-phospho-STAT3 (Tyr705) Polyclonal Antibody, Unconjugated (ABIN732638) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Flow Cytometry

Image 3. This image has been kindly submitted by Tübingen Ageing and Tumour Immunology Group (TATI), Centre for Medical Research (ZMF), University of Tübingen Medical School www.tati-group.de via our distributor Biozol. Human Melanoma cell line, EST02, was stained with Rabbit Anti-phospho-STAT3 (Tyr705) Polyclonal Antibody, FITC Conjugated (ABIN732645) for 30 minutes, on ice.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN732638.