

Datasheet for ABIN738261
anti-STAT3 antibody (AA 233-330)

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Overview

Quantity:	100 µL
Target:	STAT3
Binding Specificity:	AA 233-330
Reactivity:	Human, Mouse, Rat, Rabbit
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 peptide derived from human STAT3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Pig,Chicken,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	STAT3
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Target Details

Alternative Name:	STAT3 (STAT3 Products)
Background:	<p>Synonyms: APRF, HIES, ADMIO, Signal transducer and activator of transcription 3, Acute-phase response factor, STAT3</p> <p>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).</p>
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

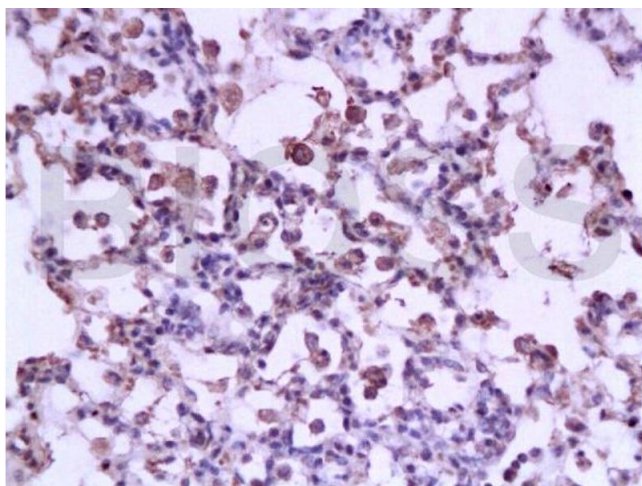
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

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

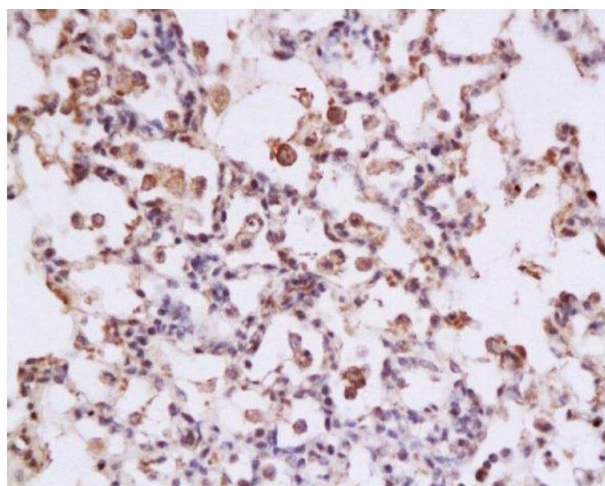
Publications

Product cited in:	<p>Zhang, Xiang, Geng, Cong, Lu, Jiang, Wang, Liu: "Electro-acupuncture regulates the cholinergic anti-inflammatory pathway in a rat model of chronic obstructive pulmonary disease." in: Journal of integrative medicine, Vol. 16, Issue 6, pp. 418-426, (2019) (PubMed).</p> <p>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).</p> <p>Song, Sun, Liu, Liu, Chen, Zhang, Zheng, Zhang: "STAT3, p-STAT3 and HIF-1α are associated with vasculogenic mimicry and impact on survival in gastric adenocarcinoma." in: Oncology letters, Vol. 8, Issue 1, pp. 431-437, (2014) (PubMed).</p> <p>Yang, Sun, Sun, Qi: "Effect of suppressor of cytokine signaling 2 (SOCS2) on fat metabolism induced by growth hormone (GH) in porcine primary adipocyte." in: Molecular biology reports, Vol. 39, Issue 9, pp. 9113-22, (2012) (PubMed).</p>
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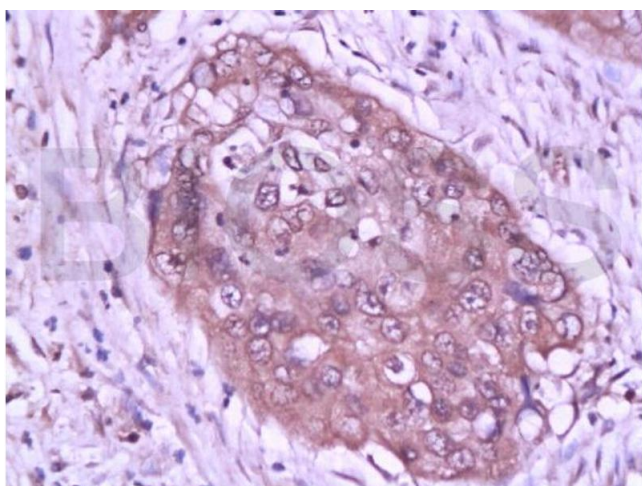
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat lung tissue labeled with Anti-STAT3 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody, (SP-0023), and DAB staining (ABIN738261) Formalin-fixed and paraffin embedded rat lung tissue labeled with Anti-STAT3 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody, (SP-0023), and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded rat lung tissue labeled with Anti-STAT3 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody, (SP-0023), and DAB staining



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded human cervical tissue labeled with Anti-STAT3 Polyclonal Antibody (ABIN738261), Unconjugated at 1:200 followed by conjugation to the secondary antibody, (SP-0023), and DAB staining

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN738261.