

Datasheet for ABIN746198

anti-STAT3 antibody (pSer727)**2** Images**2** Publications[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	STAT3
Binding Specificity:	pSer727
Reactivity:	Human, 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 phosphopeptide derived from human STAT3 around the phosphorylation site of Ser727
Isotype:	IgG
Cross-Reactivity:	Human, Rabbit, Rat
Predicted Reactivity:	Mouse,Dog,Cow,Sheep,Pig,Chicken,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	STAT3
---------	-------

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.

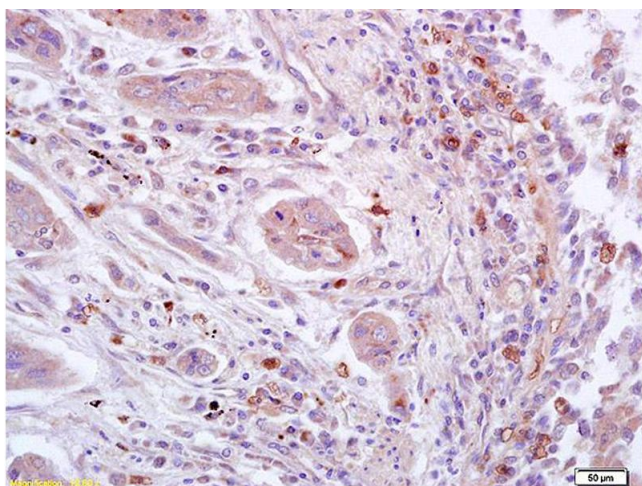
Handling

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

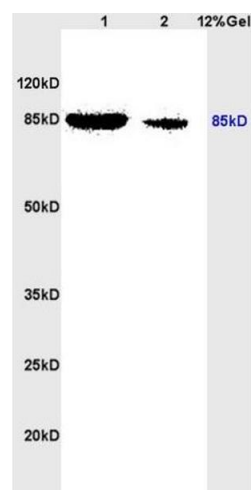
- Product cited in:
- Gao, Wang, Sun, Li, Wang, Yi, Wang: "Morusin shows potent antitumor activity for human hepatocellular carcinoma in vitro and in vivo through apoptosis induction and angiogenesis inhibition." in: **Drug design, development and therapy**, Vol. 11, pp. 1789-1802, (2017) ([PubMed](#)).
- Song, Sun, Liu, Liu, Chen, Zhang, Zheng, Zhang: "STAT3, p-STAT3 and HIF-1 α are associated with vasculogenic mimicry and impact on survival in gastric adenocarcinoma." in: **Oncology letters**, Vol. 8, Issue 1, pp. 431-437, (2014) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-phospho-STAT3 (Ser727) Polyclonal Antibody, Unconjugated (ABIN746198) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



SDS-PAGE

Image 2. Lane 1: rat heart lysates Lane 2: rat brain lysates probed with Anti phospho-STAT3(Ser727) Polyclonal Antibody, Unconjugated (ABIN746198) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 85kD. Observed band size: 85kD.