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anti-STAT3 antibody (pSer727)





Publications



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Quantity:	100 μL
Target:	STAT3
Binding Specificity:	pSer727
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human STAT3 around the phosphorylation site of Ser727.
Isotype:	IgG
Specificity:	Phospho-STAT3 (Ser727) Antibody detects endogenous levels of STAT3 only when phosphorylated at Serine 727.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Chicken
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target: STAT3

Alternative Name:	STAT3 (STAT3 Products)
Background:	Description: Signal transducer and transcription activator that mediates cellular responses to
	interleukins, KITLG/SCF, LEP and other growth factors (PubMed:10688651, PubMed:12359225
	PubMed:12873986, PubMed:15194700, PubMed:17344214, PubMed:18242580,
	PubMed:23084476). Once activated, recruits coactivators, such as NCOA1 or MED1, to the
	promoter region of the target gene (PubMed:17344214). May mediate cellular responses to
	activated FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:12873986). Binds to the interleukin-6 (IL-
	6)-responsive elements identified in the promoters of various acute-phase protein genes
	(PubMed:12359225). Activated by IL31 through IL31RA (PubMed:15194700). Acts as a
	regulator of inflammatory response by regulating differentiation of naive CD4+ T-cells into T-
	helper Th17 or regulatory T-cells (Treg): deacetylation and oxidation of lysine residues by
	LOXL3, leads to disrupt STAT3 dimerization and inhibit its transcription activity
	(PubMed:28065600). Involved in cell cycle regulation by inducing the expression of key genes
	for the progression from G1 to S phase, such as CCND1 (PubMed:17344214). Mediates the
	effects of LEP on melanocortin production, body energy homeostasis and lactation (By
	similarity). May play an apoptotic role by transctivating BIRC5 expression under LEP activation
	(PubMed:18242580). Cytoplasmic STAT3 represses macroautophagy by inhibiting
	EIF2AK2/PKR activity (PubMed:23084476). Plays a crucial role in basal beta cell functions, such
	as regulation of insulin secretion (By similarity).
	Gene: STAT3
Molecular Weight:	86kDa
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 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, IP 1:100-1:500, ELISA(peptide) 1:20000-
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Restrictions:	For Research Use only

Handling

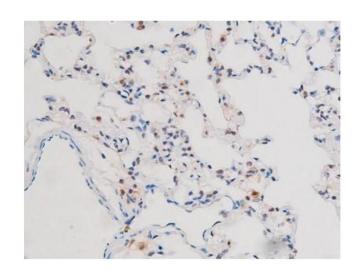
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

Product cited in:

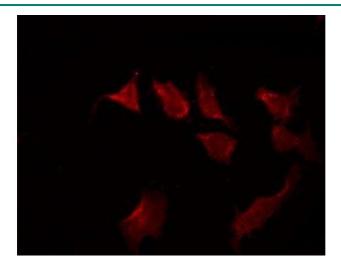
Liu, Li, Shu, Xiao, Feng: "Ephrin-b3 modulates hippocampal neurogenesis and the reelin signaling pathway in a pilocarpine-induced model of epilepsy." in: **International journal of molecular medicine**, Vol. 41, Issue 6, pp. 3457-3467, (2018) (PubMed).

Images



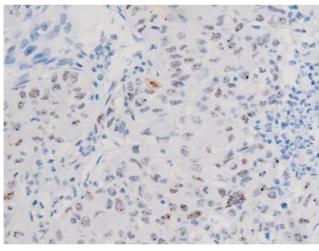
Immunohistochemistry

Image 1. ABIN6267503 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (fixed cells)

Image 2. ABIN6267503 staining LOVO by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25¡ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37¡ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibod



Immunohistochemistry

Image 3. ABIN6267503 at 1/200 staining Human lung cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 9 images are available for ABIN6256411.