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anti-STAT3 antibody (C-Term)



Publications



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

Product Details

Immunogen:	A synthesized peptide derived from human STAT3, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	STAT3 Antibody detects endogenous levels of total STAT3.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Chicken
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target: STAT3

Target Details

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, ELISA(peptide) 1:20000-1:40000

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

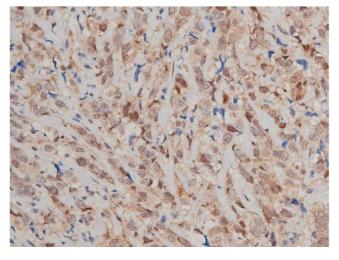
Publications

Product cited in:

Deng, Bu, Mo, Lv, Song, Xiao, Dan, Yang: "Huang Gan Formula Eliminates the Oxidative Stress Effects of Advanced Oxidation Protein Products on the Divergent Regulation of the Expression of AGEs Receptors via the JAK2/STAT3 Pathway." in: **Evidence-based complementary and alternative medicine : eCAM**, Vol. 2017, pp. 4520916, (2018) (PubMed).

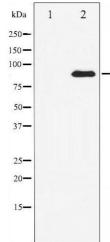
Chai, Bai, Li, Chen, Zhang: "Biological functions of lung cancer cells are suppressed in co-culture with mesenchymal stem cells isolated from umbilical cord." in: **Experimental and therapeutic medicine**, Vol. 15, Issue 1, pp. 1076-1080, (2018) (PubMed).

Wang, Li, Chen, Yang: "Umbilical cord-derived mesenchymal stem cells can inhibit the biological functions of melanoma A375 cells." in: **Oncology reports**, Vol. 40, Issue 1, pp. 511-517, (2018) (PubMed).



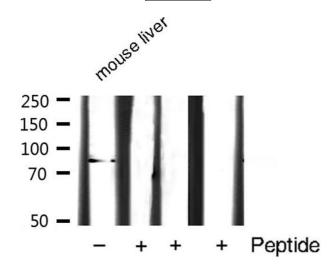
Immunohistochemistry

Image 1. ABIN6269240 at 1/200 staining human breast 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.



Western Blotting

Image 2. Western blot analysis of STAT3 expression in HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Western Blotting

Image 3. Western blot analysis of STAT3 expression in Mouse liver lysate

Please check the product details page for more images. Overall 7 images are available for ABIN6265317.