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anti-STAT3 antibody (pTyr705)



Images



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Quantity:	200 μL
Target:	STAT3
Binding Specificity:	pTyr705
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic phosphorylated peptide around Y705 of human Stat3 (NP_644805.1).	
Isotype:	lgG	
Characteristics:	Phosphorylated antibody	
Purification:	Affinity purification	

Target Details

Target:	STAT3
Alternative Name:	Stat3 (STAT3 Products)
Background:	The protein encoded by this gene is a member of the STAT protein family. In response to
	cytokines and growth factors, STAT family members are phosphorylated by the receptor

associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantileonset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

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

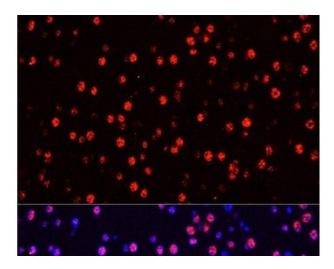
Application Details

IHC 1:50-1:200 IF 1:50-1:200 **Application Notes:**

Restrictions: For Research Use only

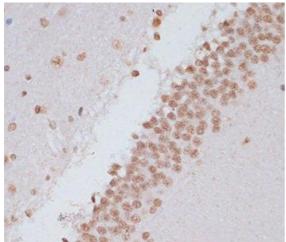
Handling

Format: Liquid Concentration: 1 mg/mL Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3 Preservative: Sodium azide Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. -20 °C Storage: Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



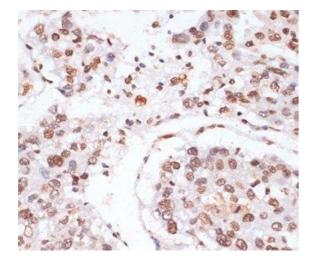
Immunofluorescence

Image 1. Immunofluorescence analysis of Mouse brain using Phospho-Stat3(Y705) Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded Rat brain using Phospho-Stat3(Y705) Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded Human liver cancer using Phospho-Stat3(Y705) Polyclonal Antibody at dilution of 1:100 (40x lens).

Please check the product details page for more images. Overall 5 images are available for ABIN7265058.