

Datasheet for ABIN7250764
anti-STAT1 antibody (pTyr701)



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3 Images

Overview

Quantity:	200 µL
Target:	STAT1
Binding Specificity:	pTyr701
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	Synthesized peptide derived from human Stat1 around the phosphorylation site of Tyr701
Isotype:	IgG
Characteristics:	Phosphorylated antibody
Purification:	Affinity purification

Target Details

Target:	STAT1
Alternative Name:	STAT1 (STAT1 Products)
Background:	Signal transducer and activator of transcription that mediates signaling by interferons (IFNs).

Target Details

Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN-gamma-activated factor (GAF), migrates into the nucleus and binds to the IFN gamma activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state.

Molecular Weight: Observed_MW: 87 kDa
Calculated_MW: 87 kDa

UniProt: [P42224](#)

Pathways: [JAK-STAT Signaling](#), [RTK Signaling](#), [Interferon-gamma Pathway](#), [Response to Growth Hormone Stimulus](#), [Cellular Response to Molecule of Bacterial Origin](#), [Positive Regulation of Endopeptidase Activity](#), [Hepatitis C](#), [CXCR4-mediated Signaling Events](#)

Application Details

Application Notes: WB 1:500-1:2000, IHC 1:100-1:300, IF 1:100-1:300, ELISA 1:5000-1:20000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

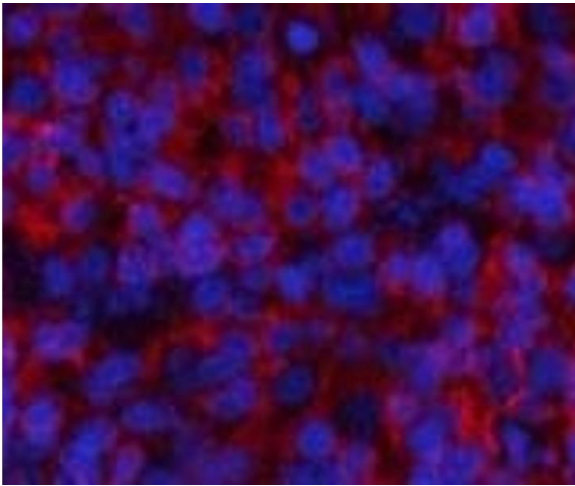
Buffer: PBS with 0.02 % sodium azide, 0.5 % BSA and 50 % glycerol, pH 7.4

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

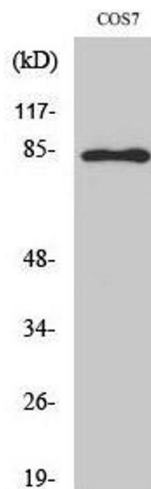
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



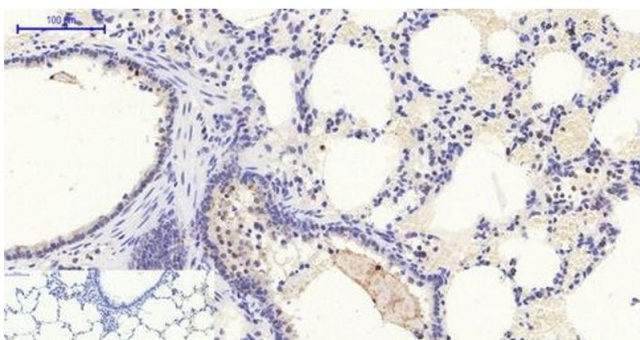
Immunofluorescence

Image 1. Immunofluorescence analysis of Rat spleen tissue with Phospho-Stat1 (Tyr701) Polyclonal Antibody at dilution of 1:200



Western Blotting

Image 2. Western Blot analysis of COS-7 cells with Phospho-Stat1 (Tyr701) Polyclonal Antibody at dilution of 1:1000



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded Rat lung tissue with Phospho-Stat1 (Tyr701) Polyclonal Antibody at dilution of 1:200