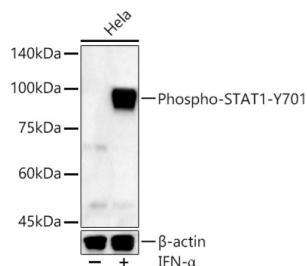
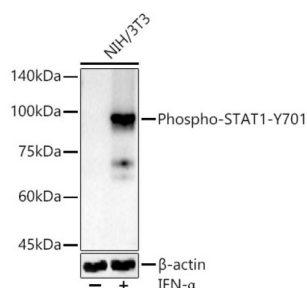


Signal Transducer And Activator of Transcription 1 Phospho-Tyr701 (STAT1 pY701) Antibody

Catalogue No.: abx000187



Western blot analysis of lysates from HeLa cells, using Phospho-STAT1-Y701 at 1/630 dilution. HeLa cells were treated by IFN- α (20 ng/ml) at 37 °C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 180s.



Western blot analysis of lysates from NIH/3T3 cells, using Phospho-STAT1-Y701 at 1/630 dilution. NIH/3T3 cells were treated by TNF- α (20 ng/ml) at 37 °C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 180s.

STAT1 (pY701) Antibody is a Rabbit Polyclonal antibody against STAT1 (pY701). Signal transducer and activator of transcription that mediates signaling by interferons (IFNs). Following type I IFN (IFN- α and IFN- β) 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- γ), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN- γ -activated factor (GAF), migrates into the nucleus and binds to the IFN γ activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state.

Target: Signal Transducer And Activator of Transcription 1 Phospho-Tyr701 (STAT1 pY701)

Clonality: Polyclonal

Reactivity: Human, Mouse, Rat

Tested Applications: ELISA, WB, IHC

Host: Rabbit

Recommended dilutions: ELISA: 1 μ g/ml, WB: 1/500 - 1/1000, IHC-P: 1/50 - 1/200. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.

Conjugation: Unconjugated

Datasheet

Version: 5.0.0
Revision date: 05 Mar 2025



Immunogen:	A synthetic phosphorylated peptide around Y701 of human STAT1.
Isotype:	IgG
Form:	Liquid
Purification:	Purified by affinity chromatography.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P42224 (UniProt , ExPASy)
Gene Symbol:	STAT1
GeneID:	6772
NCBI Accession:	NP_009330.1
Molecular Weight:	Calculated MW: 87 kDa Observed MW: 84/91 kDa
Buffer:	PBS, pH 7.3, containing 0.05% Proclin-300, 50% glycerol.
Concentration:	> 0.2 mg/ml
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.