

STAT1(Phospho-Tyr701) Antibody

Catalog No: #11044



Package Size: #11044-1 50ul #11044-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

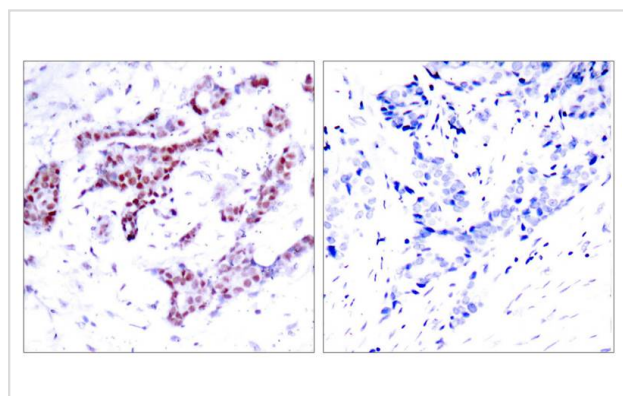
Description

Product Name	STAT1(Phospho-Tyr701) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB;IHC;IF;IP
Species Reactivity	Human;Mouse;Rat;Monkey
Specificity	The antibody detects endogenous level of STAT1 only when phosphorylated at tyrosine 701.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 701 (T-G-Y(p)-I-K) derived from Human STAT1.
Conjugates	Unconjugated
Target Name	STAT1
Modification	Phospho
Other Names	CANDF7, ISGF-3, STAT91
Accession No.	Swiss-Prot: P42224NCBI Protein: NP_009330.1
SDS-PAGE MW	84,91kd
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

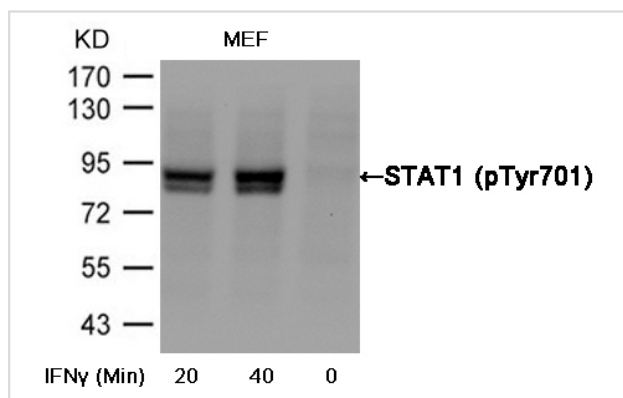
Application Details

WB 1:500-1:2000; IHC 1:100-1:300 IF 1:50-1:200 IP 2-5 ug/mg lysate

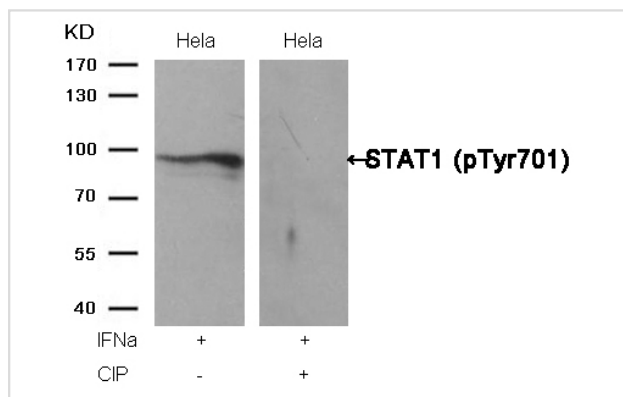
Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT1(Phospho-Tyr701) Antibody #11044(left) or the same antibody preincubated with blocking peptide(right).



Western blot analysis of extracts from MEF cells untreated or treated with interferon-I (IFN γ) using STAT1 (Phospho-Tyr701) Antibody #11044.



Western blot analysis of extracts from HeLa cells, treated with IFN α or calf intestinal phosphatase (CIP), using STAT1 (Phospho-Tyr701) Antibody #11044.

Background

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.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.