

Phospho-STAT1-Y701

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:1000 IHC 1:50 - 1:100

Calculated MW: 91kDa

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding Y701 of human STAT1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

bkoq

Synonym:

CANDF7; ISGF-3; STAT91;

Catalog #: AP0135

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 6772

Isotype: IgG

Swiss Prot: P42224

Purity: Affinity purification

For research use only.

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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