

## Stat1 $\alpha/\beta$ polyclonal antibody

Catalog: BS91284

Host: Rabbit

Reactivity: Human, mouse

### BackGround:

STAT1 is a member of the Signal Transducers and Activators of Transcription family of transcription factors. STAT1 is involved in upregulating genes due to a signal by either type I, type II, or type III interferons. In response to IFN- $\gamma$  stimulation, STAT1 forms homodimers or heterodimers with STAT3 that bind to the GAS (Interferon-Gamma-Activated Sequence) promoter element; in response to either IFN- $\alpha$  or IFN- $\beta$  stimulation, STAT1 forms a heterodimer with STAT2 that can bind the ISRE (Interferon-Stimulated Response Element) promoter element. The phosphorylated STATs dimerize and 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 IFN-stimulated genes (ISG), which drive the cell in an antiviral state. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

87 kDa

### Swiss-Prot:

P42224

### Purification&Purity:

Peptide affinity purified

### Applications:

WB:1:1,000

ICC:1:200

IHC:1:200,

FC:1:100-1:200

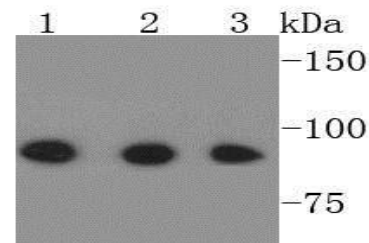
### Storage&Stability:

Store at +4  $^{\circ}\text{C}$  after thawing. Aliquot store at -20  $^{\circ}\text{C}$  or -80  $^{\circ}\text{C}$ . Avoid repeated freeze / thaw cycles.

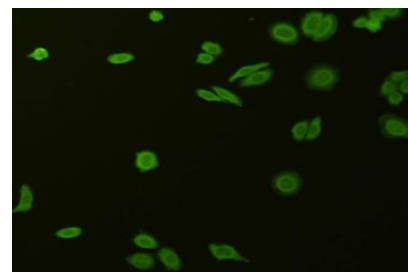
### Specificity:

Stat1  $\alpha/\beta$  polyclonal antibody detects endogenous levels of Stat1  $\alpha/\beta$  protein.

### DATA:



Western blot analysis of Stat-1 $\alpha/\beta$  on different cell lysates using anti-Stat-1 $\alpha/\beta$  antibody at 1/500 dilution. Positive control: Lane 1: Hela  
Lane 2: NIH/3T3 Lane 3: MCF-7



ICC staining Stat-1 $\alpha/\beta$  in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

### Note:

For research use only, not for use in diagnostic procedure.

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