

## Stat1(Phospho-Y701) polyclonal antibody

Catalog: AP0246

Host: Rabbit

Reactivity: Human, Mouse

### BackGround:

The Stat1 transcription factor is activated in response to a large number of ligands and is essential for responsiveness to IFN- $\alpha$  and IFN- $\gamma$ . Phosphorylation of Stat1 at Tyr701 induces Stat1 dimerization, nuclear translocation, and DNA binding. Stat1 protein exists as a pair of isoforms, Stat1 $\alpha$  (91 kDa) and the splice variant Stat1 $\beta$  (84 kDa). In most cells, both isoforms are activated by IFN- $\alpha$ , but only Stat1 $\alpha$  is activated by IFN- $\gamma$ . The inappropriate activation of Stat1 occurs in many tumors. In addition to tyrosine phosphorylation, Stat1 is also phosphorylated at Ser727 through a p38 mitogen-activated protein kinase (MAPK)-dependent pathway in response to IFN- $\alpha$  and other cellular stresses. Serine phosphorylation may be required for the maximal induction of Stat1-mediated gene activation.

### Product:

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

### Molecular Weight:

~ 84 kDa

### Swiss-Prot:

P42224

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB 1:500~1:1000

IF: 1:100~1:500

IP: 1:50~1:200

### Storage&Stability:

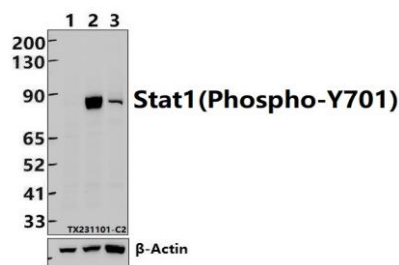
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Stat1(Phospho-Y701) polyclonal antibody detects en-

ogenous levels of Stat1 protein only when phosphorylated at Tyr701.

### DATA:

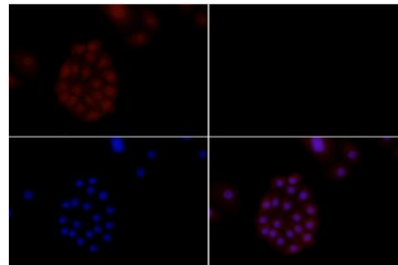


Western blot (WB) analysis of Stat1(Phospho-Y701) polyclonal antibody at 1:500 dilution

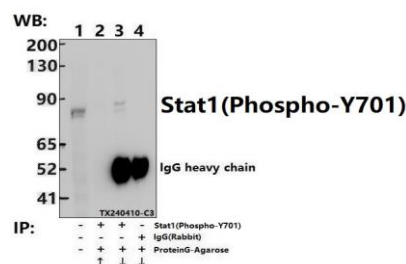
Lane1:Hela whole cell lysate(30ug)

Lane2:HeLa treated with IFN- $\alpha$  (100 ng/ml) at 37 °C for 30 minutes after serum-starvation overnight whole cell lysate(30ug)

Lane3:3T3-L1 whole cell lysate(30ug)



Immunofluorescence analysis of HeLa (serum-starvation overnight) cells using Stat1(Phospho-Y701) pAb at dilution of 1:200 (40x lens).



Immunoprecipitation of HeLa(IFN- $\alpha$  100ng/mL, 30min) cell lysates using Stat1(Phospho-Y701) pAb (Sepharose Bead Conjugate)#BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 4) .Lane 1 is 30% input. The western blot

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

was probed using Stat1(Phospho-Y701) pAb.

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

**Note:**

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