

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- α and IFN- γ . Phosphorylation of Stat1 at Tyr701 induces Stat1 dimerization, nuclear translocation, and DNA binding. Stat1 protein exists as a pair of isoforms, Stat1 α (91 kDa) and the splice variant Stat1 β (84 kDa). In most cells, both isoforms are activated by IFN- α , but only Stat1 α is activated by IFN- γ . 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- α 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:

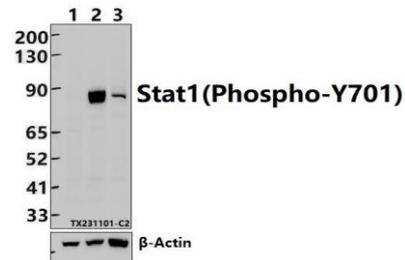
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Stat1(Phospho-Y701) polyclonal antibody detects en-

dogenous levels of Stat1 protein only when phosphorylated at Tyr701.

DATA:

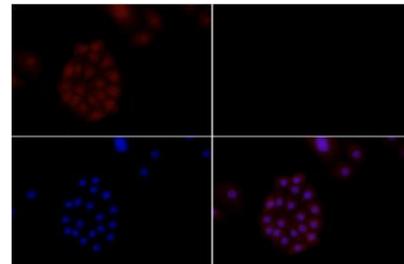


Western blot (WB) analysis of Stat1(Phospho-Y701) polyclonal antibody at 1:500 dilution

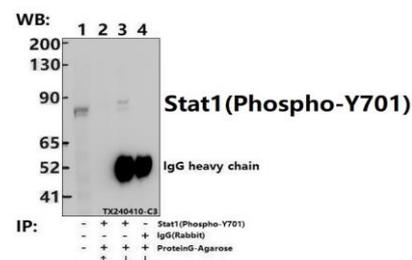
Lane1:HeLa whole cell lysate(30ug)

Lane2:HeLa treated with IFN- α (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- α 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

Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: info@bioworld.com

Tel: 6123263284

Fax: 6122933841

Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: info@biogot.com

Tel: 0086-025-68037686

Fax: 0086-025-68035151



PRODUCT DATA SHEET

Bioworld Technology, Inc.

was probed using Stat1(Phospho-Y701) pAb.

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

Note:

Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park,
MN 55416, USA.

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