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, Stat1α (91 kDa) and the splice variant Stat1β (84 kDa). In most cells, both isoforms are activated by IFN-α, but only Stat1α 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

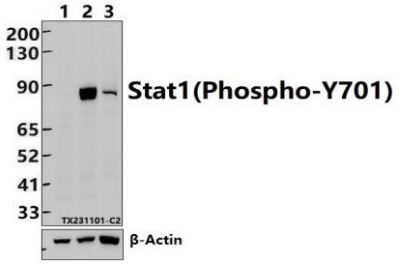
Storage&Stability:

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

Specificity:

Stat1(Phospho-Y701) polyclonal antibody detects endogenous 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℃ for 30 minutes after serum-starvation overnight whole cell lysate(30ug)

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

Note:

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

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