

## STAT1

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

**Calculated MW:**83kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein 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:**

STAT1;DKFZp686B04100;ISGF-3;STAT91 ;

**Catalog #:**A0027

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**6772

**Isotype:**IgG

**Swiss Prot:**P42224

**Purity:**Affinity purification

For research use only.

**Background:**

The Stat1 transcription factor is activated in response to a large number of ligands (1) and is essential for responsiveness to IFN- and IFN- (2,3). Phosphorylation of Stat1 at Tyr701 induces Stat1 dimerization, nuclear translocation, and DNA binding (4). Stat1 protein exists as a pair of isoforms, Stat1 (91 kDa) and the splice variant Stat1 (84 kDa). In most cells, both isoforms are activated by IFN-, but only Stat1 is activated by IFN-. The inappropriate activation of Stat1 occurs in many tumors (5). 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- and other cellular stresses (6). Serine phosphorylation may be required for the maximal induction of Stat1-mediated gene activation.

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