

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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