

## STAT1 monoclonal antibody

Catalog: MB66983

Host: Mouse

Reactivity: Human

### 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:

Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 83 kDa

### Swiss-Prot:

P42224

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/500 - 1/1000)

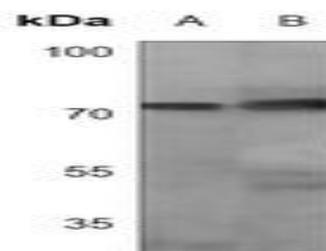
### Storage&Stability:

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

### Specificity:

Recognizes endogenous levels of STAT1 protein.

### DATA:



Western blot analysis of STAT1 expression in CEM (A), HeLa (B) whole cell lysates.

### Note:

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

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