

# Rabbit anti- STAT1

Synonym: Signal transducer and activator of transcription 1 (STAT1)

### **ANTIGEN PREPARATION**

A synthetic peptide surrounding to the C-terminus of STAT1 protein from human, mouse and rat origins.

#### **BACKGROUND**

STAT proteins (Signal transducer and activator of transcription) belong to a family of cytoplasmic transcription factors that can be phosphorylated by a lignad binding to its cell surface receptor. The phosphorylation of STAT1 at Tyr701 induces STAT1 dimerization, nuclear translocation and DNA binding. STAT 1 is activated by a number of different ligands, including IFN, EGF, PDGF and IL6. Tyrosine 701 phosphorylation impairment results in loss of STAT 1 functions.

### **PURIFICATION**

The Rabbit IgG is purified by epitope Affinity Purification.

#### **SPECIFICITY**

This antibody recognizes STAT1 protein. It reacts to human, mouse and rat. The other species are not tested..

#### APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 μg/ml
ELISA	0.01-0.1 μg/ml
Immunoprecipitation	2-5 µg/ml
IHC	1:50 µg/ml
Flow cytometry	Not tested

#### **FORMULATION**

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

**Order Information** 

500-9314

N/A

See the label

100 ug/200 ul Rabbit

Hu, Rt, Ms,

ELISA, WB, IHC

Description: Rabbit anti STAT1

Catalogue#:

Application: Reactivity:

Lot#:

Size:

Host: Clone:

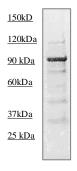
#### **STORAGE**

The antibodies are stable for 12 months from date of receipt when stored at  $-20^{\circ}$ C to  $-70^{\circ}$ C. The antibodies can be stored at  $2^{\circ}$ C- $8^{\circ}$ C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

MOLECULAR WEIGHT:	91 kDa
POSITIVE CONTROL:	Mouse liver
CELLULAR LOCATION:	Nuclear

Optimal dilutions should be determined by researchers for the specific applications.

## **DATA ATTACHMENTS**



Western Blot: The tissue lysate derived from mouse liver was immunoblotted by Rabbit anti STAT1 (Cat#500-9314) antibody at 1:500.

#### **REFERENCES**

Tong R Wu, et al. SHP-2 Is a Dual-specificity Phosphatase Involved in Stat1 Dephosphorylation at Both Tyrosine and Serine Residues in Nuclei, J. Biol. Chem., Vol. 277, Issue 49, 47572-47580, December 6, 2002

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