

For Research Use Only

# STAT1 Polyclonal antibody

Catalog Number: 10144-2-AP

Featured Product

177 Publications



## Basic Information

**Catalog Number:**

10144-2-AP

**Size:**

150ul, Concentration: 800 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0199

**GenBank Accession Number:**

BC002704

**GeneID (NCBI):**

6772

**UNIPROT ID:**

P42224

**Full Name:**

signal transducer and activator of transcription 1, 91kDa

**Calculated MW:**

83 kDa

**Observed MW:**

83-87 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP, ChIP

**Species Specificity:**

human

**Cited Species:**

human, mouse, rat, monkey, chicken

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB: A431 cells, HEK-293 cells, A549 cells, K-562 cells, PC-3 cells

IP: PC-3 cells,

IHC: human stomach tissue, human ovary cancer tissue, human testis tissue

IF/ICC: IFN alpha treated HeLa cells,

## Background Information

STAT1 (signal transducers and activators of transcription 1) is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. Various ligands, including interferons- and -, EGF, PDGF and IL-6, can activate STAT1. STAT1 protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. This antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human STAT1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xin Wen	36249018	Front Oncol	WB
Lin Deng	36170649	J Med Chem	WB
Bin Zhang	32964498	Neurochem Res	WB,IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

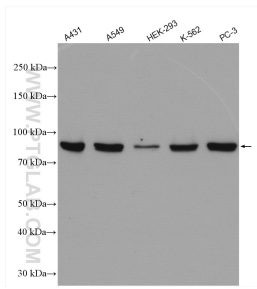
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

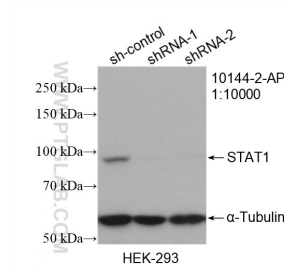
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

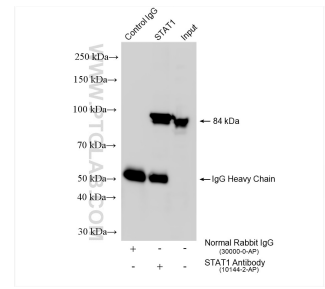
## Selected Validation Data



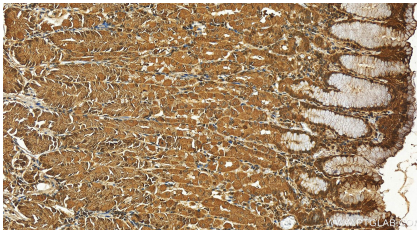
Various lysates were subjected to SDS PAGE followed by western blot with 10144-2-AP (STAT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



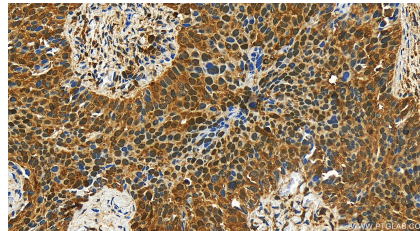
WB result of STAT1 antibody (10144-2-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-STAT1 transfected HEK-293 cells.



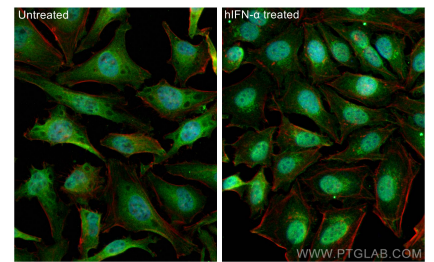
IP result of anti-STAT1 (IP:10144-2-AP, 4ug; Detection:10144-2-AP 1:5000) with PC-3 cells lysate 1575 ug.



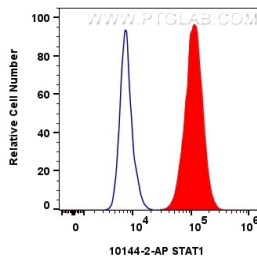
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 10144-2-AP (STAT1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 10144-2-AP (STAT1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed IFN alpha treated HeLa cells using STAT1 antibody (10144-2-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



$1 \times 10^6$  MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human STAT1 (10144-2-AP)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).