

For Research Use Only

# Phospho-STAT1 (Tyr701) Polyclonal antibody, PBS Only

Catalog Number: 28979-1-PBS



## Basic Information

### Catalog Number:

28979-1-PBS

### Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### 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:

84-91 kDa

### Purification Method:

Antigen affinity purification

## Applications

### Tested Applications:

WB, IF/ICC, FC (Intra), Indirect ELISA

### Species Specificity:

human

## Background Information

STAT1 (signal transducers and activators of transcription 1) is a member of the STAT protein family. 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. The phosphorylation of STAT1 at Tyr701 promotes the dimerization of STAT1 and its translocation into the nucleus where it binds the GAS promoter to allow the transcription of inflammatory response genes (PMID: 31408005). The transcript of STAT1 undergoes alternative splicing, resulting in two isoforms: STAT1 $\alpha$  (91 kDa) and STAT1 $\beta$  (84 kDa) (PMID: 20159032).

## Storage

### Storage:

Store at -80°C.

### Storage Buffer:

PBS Only

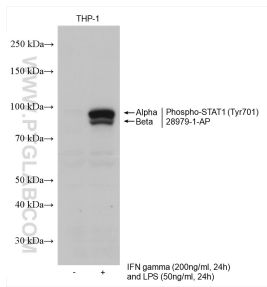
For technical support and original validation data for this product please contact:

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

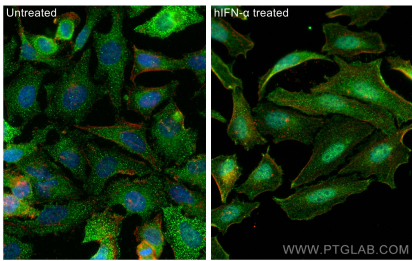
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

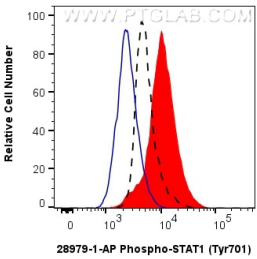
## Selected Validation Data



Non-treated THP-1 cells, IFN gamma and LPS treated THP-1 cells were subjected to SDS PAGE followed by western blot with 28979-1-AP (Phospho-STAT1 (Tyr701) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 28979-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed IFN alpha treated HeLa cells using Phospho-STAT1 (Tyr701) antibody (28979-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 28979-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> IFN gamma treated THP-1 cells were intracellularly stained with 0.25 ug Phospho-STAT1 (Tyr701) Polyclonal antibody (28979-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody clone with 28979-1-PBS in a different storage buffer formulation.