

For Research Use Only

# PE-conjugated Phospho-STAT1 (Tyr701) Recombinant antibody

Catalog Number: PE-82674-10



## Basic Information

Catalog Number:

PE-82674-10

Concentration:

200 ug/ml

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:

Protein A purification

CloneNo.:

1C5

Recommended Dilutions:

FC (Intra): 0.03 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 578 nm

## Applications

Tested Applications:

FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

FC (Intra): IFN gamma treated THP-1 cells,

## 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 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

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

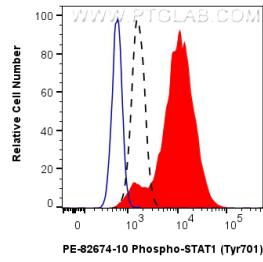
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## Selected Validation Data



$1 \times 10^6$  THP-1 cells untreated (dashed lines) or treated with IFN gamma which intracellularly stained with 0.03 ug PE-conjugated Phospho-STAT1 (Tyr701) Recombinant antibody (PE-82674-10, Clone:1C5)(red), or 0.03 ug PE Rabbit IgG Isotype Control RecAb (PE-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.