

For Research Use Only

Phospho-STAT1 (Tyr701) Recombinant antibody, PBS Only

Catalog Number: 82674-10-PBS



Basic Information

Catalog Number:

82674-10-PBS

Size:

100ug, Concentration: 1mg/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:

Protein A purification

CloneNo.:

1C5

Applications

Tested Applications:

WB, 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 α (91 kDa) and STAT1 β (84 kDa) (PMID: 20159032).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

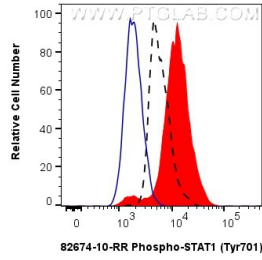
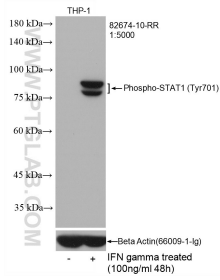
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Selected Validation Data



Non-treated THP-1 cells and IFN gamma treated THP-1 cells were subjected to SDS PAGE followed by western blot with 82674-10-RR (Phospho-STAT1 (Tyr701) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as loading control. This data was developed using the same antibody clone with 82674-10-PBS in a different storage buffer formulation.

1x10⁶ IFN gamma treated THP-1 cells were intracellularly stained with 0.13 ug Phospho-STAT1 (Tyr701) Recombinant antibody (82674-10-RR, Clone:1C5) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody clone with 82674-10-