

For Research Use Only

Phospho-STAT1 (Tyr701) Recombinant antibody



Catalog Number: 82674-10-RR

Basic Information

Catalog Number: 82674-10-RR	GenBank Accession Number: BC002704	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6772	CloneNo.: 1C5
Source: Rabbit	Full Name: signal transducer and activator of transcription 1, 91kDa	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Calculated MW: 83 kDa	
	Observed MW: 84-91 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : IFN gamma treated THP-1 cells,
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

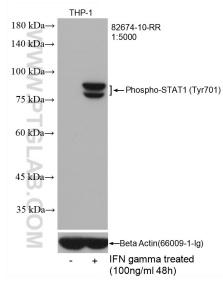
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 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)
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W: ptglab.com

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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.