

For Research Use Only

Phospho-STAT1 (Tyr701) Polyclonal antibody



Catalog Number: 28979-1-AP

1 Publications

Basic Information

Catalog Number: 28979-1-AP	GenBank Accession Number: BC002704	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 6772	Recommended Dilutions: WB 1:1000-1:6000 IF 1:200-1:800
Source: Rabbit	Full Name: signal transducer and activator of transcription 1, 91kDa	
Isotype: IgG	Calculated MW: 83 kDa	
	Observed MW: 84-91 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : IFN gamma and LPS treated THP-1 cells, IF : IFN alpha treated HeLa cells,
Cited Applications: WB	
Species Specificity: Human	
Cited Species: 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Ye Xie	37980535	J Transl Med	WB

Storage

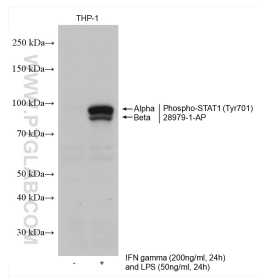
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

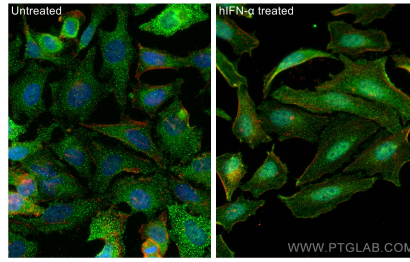
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



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.



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).