

For Research Use Only

Phospho-STAT1 (Ser727) Polyclonal antibody

Catalog Number: 28977-1-AP

9 Publications



Basic Information

Catalog Number:

28977-1-AP

Size:

100ul, Concentration: 200 ug/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 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

human, mouse

Positive Controls:

WB : IFN gamma treated HeLa cells,

IF/ICC : IFN alpha treated HeLa 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. STAT1 activating phosphorylation at Ser727 is p38-dependant during lipotoxic stress. MLK3 activation triggers a MAPK signaling cascade resulting in STAT1 Ser727 phosphorylation. The phosphorylation of STAT1 Ser727 increases its nuclear localization, and transcriptional activity. (PMID: 28262979).

Notable Publications

Author	Pubmed ID	Journal	Application
Jian Lou	39525474	PeerJ	WB
Xiaomei Wang	39426234	Int Immunopharmacol	WB
Haitao Yu	39353096	Gut Microbes	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

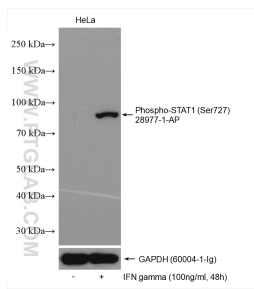
For technical support and original validation data for this product please contact:

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

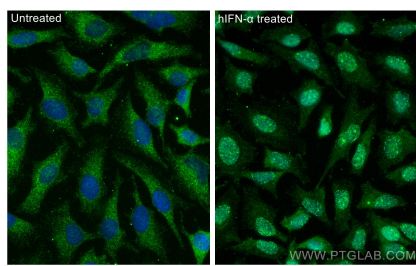
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Non-treated HeLa cells and IFN gamma treated HeLa cells were subjected to SDS PAGE followed by western blot with 28977-1-AP (Phospho-STAT1 (Ser727) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Immunofluorescent analysis of (-20°C Ethanol) fixed IFN alpha treated HeLa cells using Phospho-STAT1 (Ser727) antibody (28977-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).