

For Research Use Only

Phospho-STAT1 (Ser727) Polyclonal antibody



Catalog Number: 28977-1-AP

3 Publications

Basic Information

Catalog Number:

28977-1-AP

Size:

200 µg/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 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IF 1:200-1:800

Applications

Tested Applications:

IF/ICC, WB, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

human, mouse

Positive Controls:

WB : IFN gamma treated HeLa cells,

IF : 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
Emma Saulters	38147007	Cancer Res Commun	WB
Yutong Cui	38134680	J Reprod Immunol	WB
Wei Fan	37790522	Res Sq	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

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

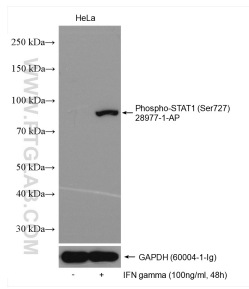
T: 4006900926

E: Proteintech-CN@ptglab.com

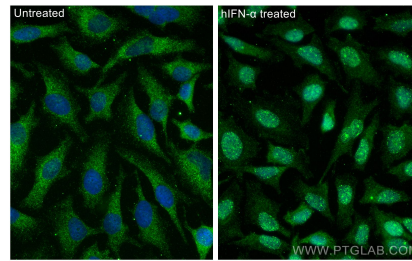
W: ptgcn.com

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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 AffiniPure Goat Anti-Rabbit IgG(H+L).