For Research Use Only

Phospho-STAT1 (Ser727) Polyclonal antibody

Catalog Number:28977-1-AP 5 Publications

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Basic Information

Catalog Number:
28977-1-AP

Size:
100ul , Concentration: 350 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
Yanping Guo	39021077	J Asthma	WB
Yong Dai	38384572	Heliyon	WB
Emma Saulters	38147007	Cancer Res Commun	WB

Storage

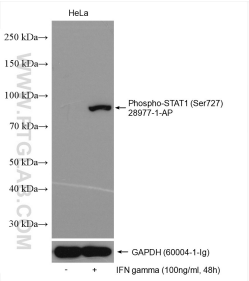
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1%BSA**

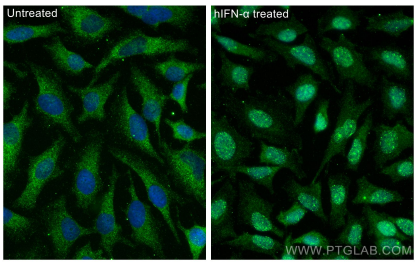
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Non-treated 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).