STAT1 Polyclonal antibody

Catalog Number: 10144-2-AP

Basic Information

Catalog Number: 10144-2-AP
Size: 150μl, Concentration: 700μg/ml by Nanodrop
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG0199

GenBank Accession Number: BC002704
GeneID (NCBI): 6772
Full Name: signal transducer and activator of transcription 1, 91kDa
Calculated MW: 83 kDa
Observed MW: 83-87 kDa

Purification Method: Antigen affinity purification
Recommended Dilutions:
WB: 1:2000-1:10000
IP: 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IF: 1:50-1:500

Applications

Tested Applications: FC, IF, IP, WB, ELISA
Cited Applications: ChIP, CoIP, IF, IHC, IP, WB
Species Specificity: human
Cited Species: human, rat, mouse

Background Information

STAT1 (signal transducers and activators of transcription 1) is a member of the STAT protein family. In response to cytokines and growth factors, 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. Various ligands, including interferons-α and -β, EGF, PDGF and IL-6, can activate STAT1. STAT1 protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. This antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human STAT1.

Notable Publications

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<th>Author</th>
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<td>Xin Wen</td>
<td>36249018</td>
<td>Front Oncol</td>
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<td>Lin Deng</td>
<td>36170669</td>
<td>J Med Chem</td>
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<td>Bin Zhang</td>
<td>32964498</td>
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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: 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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Various lysates were subjected to SDS PAGE followed by western blot with 10144-2-AP (STAT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.


Immunofluorescent analysis of (10% Formaldehyde) fixed PC-3 cells using 10144-2-AP (STAT1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

1X10^6 MCF-7 cells were stained with 0.2ug STAT1 antibody (10144-2-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min), Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

WB result of STAT1 antibody (10144-2-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-STAT1 transfected HEK-293 cells.