

For Research Use Only

STAT1 Recombinant antibody

Catalog Number: 82016-1-RR

Featured Product



Basic Information

Catalog Number: 82016-1-RR	GenBank Accession Number: BC002704	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6772	CloneNo.: 2F16
Source: Rabbit	Full Name: signal transducer and activator of transcription 1, 91kDa	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:800 IF 1:500-1:2000
Isotype: IgG	Calculated MW: 83 kDa	
Immunogen Catalog Number: AG0199	Observed MW: 84 kDa	

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Species Specificity:

Human, Mouse, Rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HEK-293 cells, HeLa cells, A549 cells, Jurkat cells, K-562 cells, NIH/3T3 cells, HSC-T6 cells

IP: PC-3 cells,

IHC: human ovary tumor tissue, mouse spleen tissue, mouse colon tissue, rat colon tissue, rat spleen tissue

IF: IFN alpha treated HeLa cells,

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- and -, 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.

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

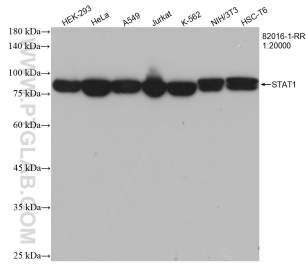
For technical support and original validation data for this product please contact:

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

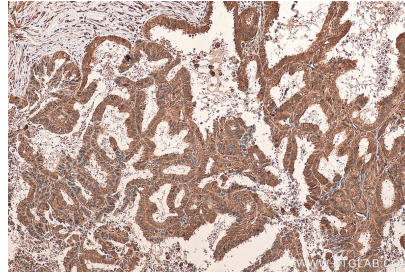
E: proteintech@ptglab.com
W: ptglab.com

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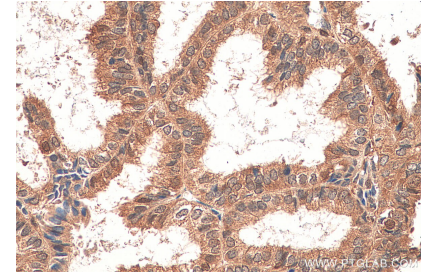
Selected Validation Data



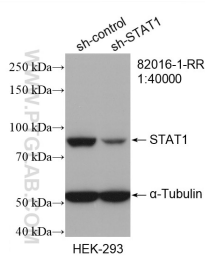
Various lysates were subjected to SDS PAGE followed by western blot with 82016-1-RR (STAT1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



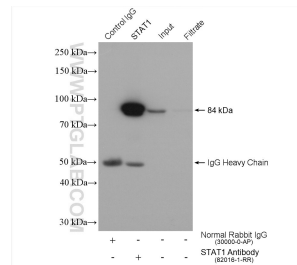
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 82016-1-RR (STAT1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



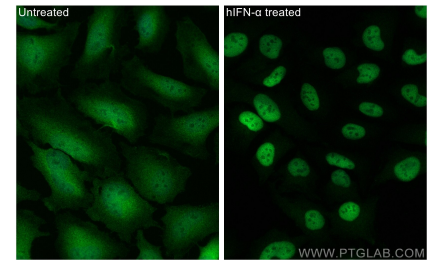
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 82016-1-RR (STAT1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of STAT1 antibody (82016-1-RR; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-STAT1 transfected HEK-293 cells.



IP result of anti-STAT1(IP:82016-1-RR, 4ug; Detection:82016-1-RR 1:10000) with PC-3 cells lysate 2000 ug.



Immunofluorescent analysis of (4% PFA) fixed IFN alpha treated HeLa cells using STAT1 antibody (82016-1-RR, Clone: 2F16) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).