

# STAT5B

## Polyclonal ANTIBODY

Catalog Number: 12071-1-AP

3 Publications

### Basic Information

Catalog Number:  
12071-1-AP

Size:  
21 µg/150 µl

Source:  
Rabbit

Isotype:  
IgG

Purification Method:  
Antigen affinity purification  
Immunogen Catalog Number:  
AG2709

GenBank Accession Number:  
BC020868

GeneID (NCBI):  
6777

Full Name:  
signal transducer and activator of transcription  
5B

Calculated MW:  
787aa, 90 kDa

Observed MW:  
90 kDa

Recommended Dilutions:

WB 1:500-1:2000  
IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB  
IHC 1:50-1:500  
IF 1:10-1:100

### Applications

Tested Applications:  
IF, IHC, IP, WB, ELISA

Cited Applications:  
IF, IP, WB

Species Specificity:  
human, mouse, rat

Cited Species:  
mouse, rat

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

Positive Controls:

WB : HeLa cells; multi-cells

IP : HeLa cells;

IHC : human lung cancer tissue; human breast cancer tissue, human cervical cancer tissue

IF : HepG2 cells;

### Background Information

STAT5B belongs to the transcription factor STAT 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. STAT5B carries out a dual function: signal transduction and activation of transcription. STAT5B mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human STAT5B.

### Notable Publications

Author	Pubmed ID	Journal	Application
Furong Zhang	26493931	Toxicol Appl Pharmacol	WB, IP, IF
Dong Ma	27856242	Biochem Biophys Res Commun	WB
Yu Long	29909346	Biomed Pharmacother	WB

### Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

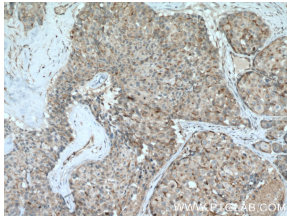
For technical support and original validation data for this product please contact:

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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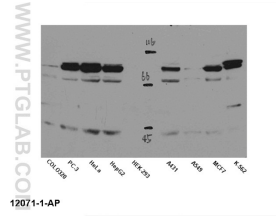
## Selected Validation Data



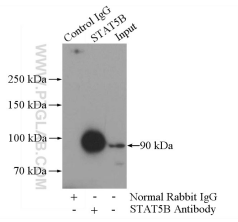
Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 12071-1-AP (STAT5B antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



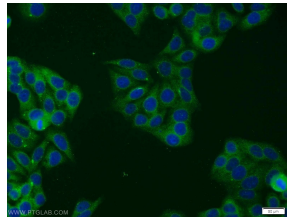
HeLa cells were subjected to SDS PAGE followed by western blot with 12071-1-AP(STAT5B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



WB result of anti-STAT5B (12071-1-AP) in different cell lysates.



IP Result of anti-STAT5B (IP:12071-1-AP, 4ug; Detection:12071-1-AP 1:500) with HeLa cells lysate 1200ug.



Immunofluorescent analysis of HepG2 cells using 12071-1-AP(STAT5B antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)