

For Research Use Only

# STAT5A/B Polyclonal antibody

Catalog Number: 12071-1-AP

4 Publications



## Basic Information

**Catalog Number:**

12071-1-AP

**Size:**

150ul, Concentration: 450 µg/ml by Nanodrop and 140 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2709

**GenBank Accession Number:**

BC020868

**GeneID (NCBI):**

6777

**Full Name:**

signal transducer and activator of transcription 5B

**Calculated MW:**

787 aa, 90 kDa

**Observed MW:**

90 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 ug 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-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:** HeLa cells, multi-cells

**IP:** HeLa cells,

**IHC:** human lung cancer tissue, human cervical cancer tissue, human breast 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. Although this antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human STAT5B, the homology between this segment and the corresponding segment of human STAT5 is 99%. It shows that this antibody can cross-react with STAT5A.

## 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 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

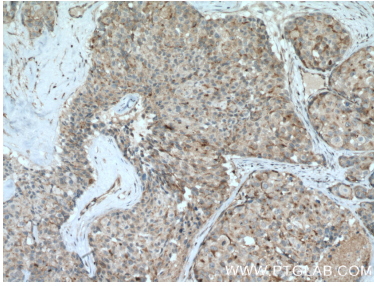
For technical support and original validation data for this product please contact:

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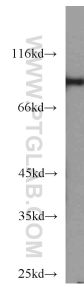
E: proteintech@ptglab.com  
W: ptglab.com

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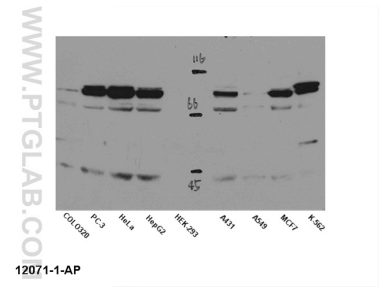
## Selected Validation Data



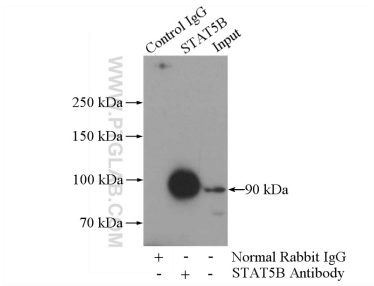
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12071-1-AP (STAT5A/B antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



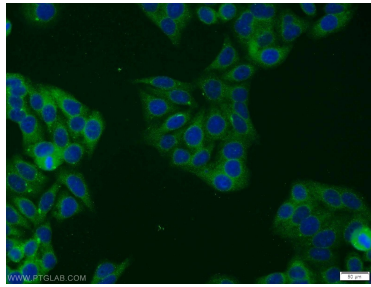
HeLa cells were subjected to SDS PAGE followed by western blot with 12071-1-AP (STAT5A/B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of anti-STAT5A/B (12071-1-AP) in different cell lysates.



IP Result of anti-STAT5A/B (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 (STAT5A/B antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).