

For Research Use Only

# STAT5A/B Polyclonal antibody

Catalog Number: 13179-1-AP

Featured Product

26 Publications



## Basic Information

### Catalog Number:

13179-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3846

### GenBank Accession Number:

BC027036

### GeneID (NCBI):

6776

### UNIPROT ID:

P42229

### Full Name:

signal transducer and activator of transcription 5A

### Calculated MW:

794 aa, 92 kDa

### Observed MW:

90-95 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, bovine, cow

**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** : K-562 cells, 3T3-L1 cells, Daudi cells, DU 145 cells, SGC-7901 cells

**IP** : K-562 cells, 3T3-L1 cells

**IHC** : human cervical cancer tissue, human breast cancer tissue

## Background Information

STAT5A, also named as STAT5, 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. STAT5A is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of STAT5A in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of human STAT5A is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of STAT5A in cells. This antibody is a rabbit polyclonal antibody raised against 445-794 aa of human STAT5A, the homology between this segment and the corresponding segment of human STAT5B is 92%. It shows that this antibody can cross-react with STAT5B.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuezhu Zhang	31491605	Ecotoxicol Environ Saf	WB
Xiaolei Shi	36217946	J Agric Food Chem	WB
Xiaodi Gong	36524006	Front Oncol	IHC, WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

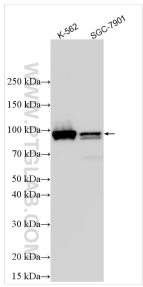
For technical support and original validation data for this product please contact:

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

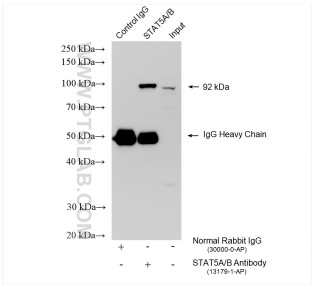
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

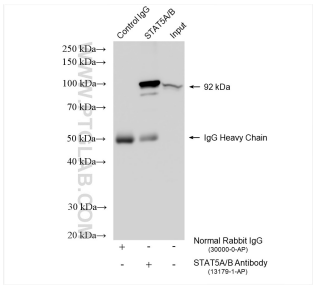
Selected Validation Data



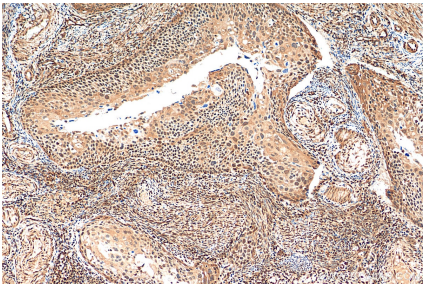
Various lysates were subjected to SDS PAGE followed by western blot with 13179-1-AP (STAT5A/B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



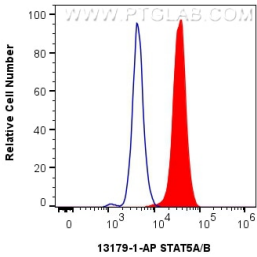
IP result of anti-STAT5A/B (IP:13179-1-AP, 4ug; Detection:13179-1-AP 1:5000) with 3T3-L1 cells lysate 1360 ug.



IP result of anti-STAT5A/B (IP:13179-1-AP, 4ug; Detection:13179-1-AP 1:5000) with K-562 cells lysate 2800 ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 13179-1-AP (STAT5A/B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug STAT5A/B Polyclonal antibody (13179-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).