For Research Use Only

STAT5A/B Polyclonal antibody

Catalog Number:13179-1-AP Featured Product 19 Publications

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Basic Information

Catalog Number:
13179-1-AP

Size:
150ul , Concentration: 400 µg/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, 50-55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

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

Cited Applications:
WB,IHC,IF

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, 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 : Daudi cells, K-562 cells, DU 145 cells, 3T3-L1 cells, SGC-7901 cells

IP : 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

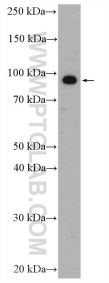
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

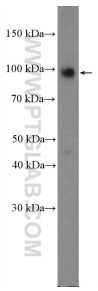
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

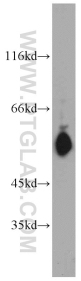
Selected Validation Data



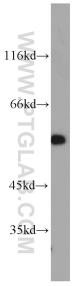
Daudi cells were subjected to SDS PAGE followed by western blot with 13179-1-AP (STAT5A/B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



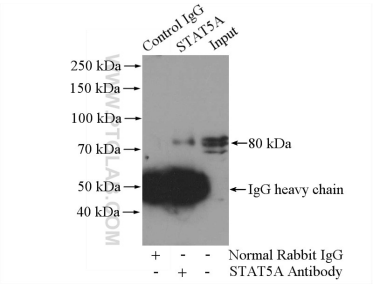
K-562 cells were subjected to SDS PAGE followed by western blot with 13179-1-AP (STAT5A/B Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



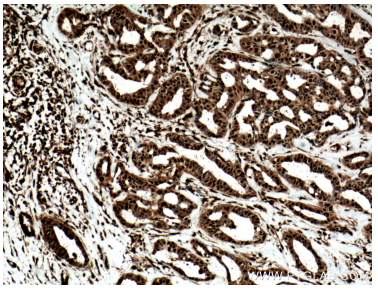
3T3-L1 cells were subjected to SDS PAGE followed by western blot with 13179-1-AP (STAT5A/B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



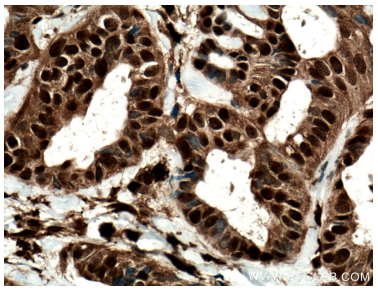
DU 145 cells were subjected to SDS PAGE followed by western blot with 13179-1-AP (STAT5A/B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



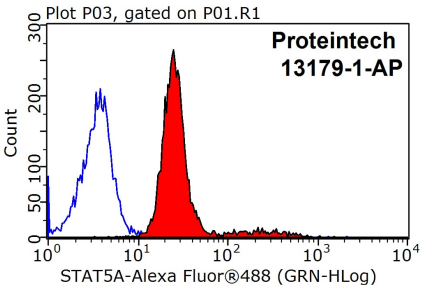
IP result of anti-STAT5A/B (IP:13179-1-AP, 4ug; Detection:13179-1-AP 1:1000) with 3T3-L1 cells lysate 3200ug.



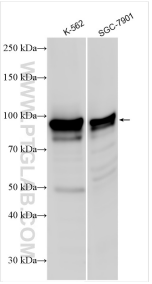
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13179-1-AP (STAT5A/B antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



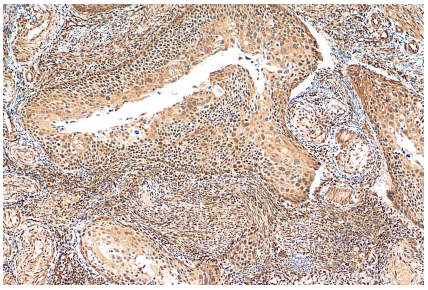
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13179-1-AP (STAT5A antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

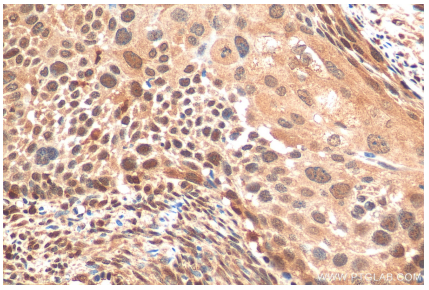


1X10^6 MCF-7 cells were stained with 0.2ug STAT5A/B antibody (13179-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



Various lysates were subjected to SDS PAGE followed by western blot with 13179-1-AP (STAT5A antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.





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).

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 13179-1-AP (STAT5A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).