For Research Use Only

STAT5A/B Polyclonal antibody

Catalog Number:12071-1-AP 9 Publications

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Basic Information

Catalog Number:
12071-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2709

GenBank Accession Number:
BC020868

GeneID (NCBI):
6777

ENSEMBL Gene ID:
ENSG00000173757

UNIPROT ID:
P51692

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 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:10-1:100

Applications

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

Cited Applications:
WB, IF, IP

Species Specificity:
human

Cited Species:
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 : HeLa cells, Jurkat cells, K-562 cells, MOLT-4 cells

IP : HeLa cells,

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

IF/ICC : 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 STAT5A is 95%. It shows that this antibody can cross-react with STAT5A.

Notable Publications

Author	Pubmed ID	Journal	Application
Huan Ge	36306591	Biomed Pharmacother	WB
Furong Zhang	26493931	Toxicol Appl Pharmacol	WB, IP, IF
Dong Ma	27856242	Biochem Biophys Res Commun	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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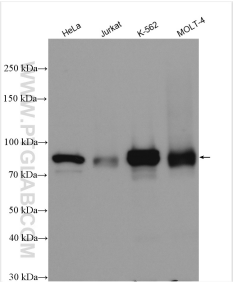
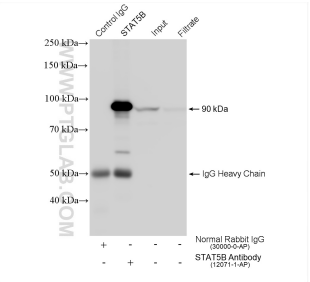
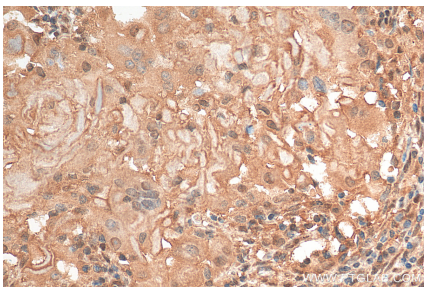
Selected Validation Data



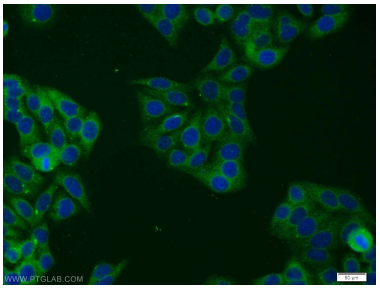
Various lysates were subjected to SDS PAGE followed by western blot with 12071-1-AP (STAT5A/B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-STAT5A/B (IP:12071-1-AP, 4ug; Detection:12071-1-AP 1:4000) with HeLa cells lysate 1720 ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 12071-1-AP (STAT5A/B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells using 12071-1-AP (STAT5A/B antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).