For Research Use Only

STAT3 Polyclonal antibody

Catalog Number: 51076-2-AP 7 Publications



Purification Method:

protein lysate

IHC 1:50-1:500

Basic Information

Catalog Number: GenBank Accession Number: 51076-7-AP BC000627

51076-2-AP BC000627 Antigen affinity purification
Size: GenelD (NCBI): Recommended Dilutions:

 150ul , Concentration: 1000 ug/ml by 6774
 WB 1:2000-1:12000

 Nanodrop;
 UNIPROT ID:
 IP 0.5-4.0 ug for 1.0-3.0 mg of total

Source: P40763
Rabbit Full Name:

Isotype: signal transducer and activator of IgG transcription 3 (acute-phase response

factor)

Calculated MW: 770 aa, 88 kDa Observed MW: 88 kDa

Applications

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

WR IP

Species Specificity: human, mouse Cited Species: human, mouse

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, K-562 cells, NIH/3T3 cells

IP: HeLa cells,

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

Background Information

Signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3, synonyms: APRF, FLJ20882, MGC 16063) is a member of the STAT protein 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. STAT3 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. STAT3 mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of STAT3. This antibody is a rabbit polyclonal antibody raised against a peptide mapping within human STAT3. STAT3 exists three isoforms and the molecular weight of each isoform respectively is 83 kDa, 87 kDa and 88 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Chung-I Yu	32222934	Neurotox Res	WB
Yu Sun	32030835	FASEB J	WB
Shengjin Yu	34429775	Oncol Lett	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

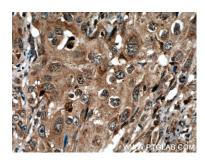
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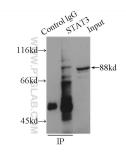
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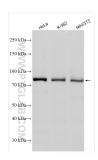
Selected Validation Data



Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 51076-2-AP (STAT3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-STAT3 (IP:51076-2-AP, 4ug; Detection:51076-2-AP 1:500) with HeLa cells lysate 1500ug.



Various lysates were subjected to SDS PAGE followed by western blot with 51076-2-AP (STAT3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.