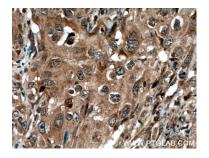
For Research Use Only

STAT3 Polyclonal antibody Catalog Number:51076-2-AP 7 Publications

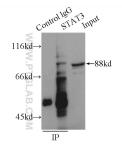


Basic Information	Catalog Number: 51076-2-AP	GenBank Accession Number: BC000627	Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit	GeneID (NCBI): 6774 UNIPROT ID: P40763	Recommended Dilutions:	
			WB 1:2000-1:12000 IP 0.5-4.0 ug for 1.0-3.0 mg of total	
			proteinlysate	
		Full Name:	IHC 1:50-1:500	
	Isotype: IgG	signal transducer and activator of 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:	WB : H	WB : HeLa cells, K-562 cells, NIH/3T3 cells IP : HeLa cells,	
	WB, IP	IP : He		
	Species Specificity: human, mouse		human cervical cancer tissue, human breast er tissue, human lung cancer tissue	
	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			
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		med ID Journal	Application	
Notable Publications	Author Pub	med ID Journal	Application WB	
Notable Publications	Author Pub Chung-I Yu 322	Neurotox Res		
Notable Publications	AuthorPubChung-l Yu322Yu Sun320		5 WB	
Notable Publications	AuthorPubChung-I Yu322Yu Sun320	22934 Neurotox Res 30835 FASEB J 29775 Oncol Lett er shipment. % glycerol pH 7.3.	s WB WB	
	AuthorPubChung-l Yu322Yu Sun320Shengjin Yu344Storage:Storage:Storage Buffer:PBS with 0.02% sodium azide and 50%	22934 Neurotox Res 30835 FASEB J 29775 Oncol Lett er shipment. % glycerol pH 7.3.	s WB WB	

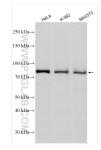
Selected Validation Data



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.