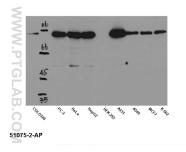
For Research Use Only

STAT2 Polyclonal antibody Catalog Number: 51075-2-AP 7 Publications



Basic Information	Catalog Number: 51075-2-AP	GenBank Accession Nun BC051284	nber:	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):		Recommended Dilutions:	
	150ul , Concentration: 350 ug/ml by	6773		WB 1:500-1:1000	
	Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;	UNIPROT ID:		IHC 1:20-1:200	
	Source:	P52630			
	Rabbit	Full Name:			
	Isotype:	signal transducer and activator of transcription 2, 113kDa Calculated MW:			
	IgG				
		851 aa, 98 kDa			
		Observed MW: 100-113 kDa			
Applications	Tested Applications: WB, IHC, ELISA		Positive Controls:		
	Cited Applications:		VB : MCF7 ce	VB : MCF7 cells, multi-cells	
	WB, IF	IHC : hur		reast cancer tissue, human lung cancer	
	Species Specificity: human		ISSUE		
	Cited Species:				
	human, mouse				
	Note-IHC: suggested antigen ro TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen			
Background Information	STAT2, also named as p113, belongs to the transcription factor STAT family. It is a signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize and associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of IFN stimulated genes, which drive the cell in an antiviral state. It also interacts with CRSP2, CRSP6, Simian virus 5 protein V, rabies virus phosphoprotein, IFNAR1 and IFNAR2. Its interaction with dengue virus NS5 inhibits the phosphorylation of STAT2, and, when all viral proteins are present (polyprotein), STAT2 is targeted for degradation. This antibody is a rabbit polyclonal antibody raised against a peptide mapping within human STAT2. The calculated molecular weight of STAT2 is 98 kDa, but phosphorylated STAT2 is about 100-113 kDa.				
	•	ght of STAT2 is 98 kDa, b	ar priospriory		
Notable Publications	STAT2. The calculated molecular weig	ght of STAT2 is 98 kDa, b med ID Journal			
Notable Publications	STAT2. The calculated molecular weights Author Pub	-		lated STAT2 is about 100-113 kDa.	
Notable Publications	STAT2. The calculated molecular weights Author Pub Yan-Ping Xu 313	omed ID Journal	nvest	lated STAT2 is about 100-113 kDa.	
Notable Publications	STAT2. The calculated molecular weights Author Pub Yan-Ping Xu 313 Jiangang Zheng 365	omed ID Journal 310587 J Clin Ir	nvest t Res	lated STAT2 is about 100-113 kDa. Application	
Notable Publications	STAT2. The calculated molecular weights Author Pub Yan-Ping Xu 313 Jiangang Zheng 365	omed ID Journal 10587 J Clin Ir 172890 BMC Ve	nvest t Res	lated STAT2 is about 100-113 kDa. Application WB	
Notable Publications Storage	STAT2. The calculated molecular weight Author Pub Yan-Ping Xu 313 Jiangang Zheng 365 Chen Li 361 Storage: Stora at -20°C. Storage Buffer: PBS with 0.02% sodium azide and 500	med ID Journal 310587 J Clin Ir 372890 BMC Ve 146669 Viruses % glycerol pH 7.3.	nvest t Res	lated STAT2 is about 100-113 kDa. Application WB	
	STAT2. The calculated molecular weight Author Pub Yan-Ping Xu 313 Jiangang Zheng 365 Chen Li 361 Storage: Store at -20°C. Storage Buffer:	med ID Journal 310587 J Clin Ir 372890 BMC Ve 146669 Viruses % glycerol pH 7.3.	nvest t Res	lated STAT2 is about 100-113 kDa. Application WB	

Selected Validation Data



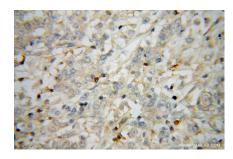
WB result of anti-STAT2 (51075-2-AP) in different cell lysates.

 $200 \text{kd} \rightarrow$ $158 \text{kd} \rightarrow$ $116 \text{kd} \rightarrow$ $97 \text{kd} \rightarrow$ $72 \text{kd} \rightarrow$

MCF7 cells were subjected to SDS PAGE followed by western blot with 51075-2-AP (STAT2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human breast cancer using 51075-2-AP (STAT2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human breast cancer using 51075-2-AP (STAT2 antibody) at dilution of 1:50 (under 40x lens).