

For Research Use Only

STAT5B Monoclonal antibody

Catalog Number: 66427-1-Ig 1 Publications



Basic Information

Catalog Number: 66427-1-Ig	GenBank Accession Number: BC020868	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6777	CloneNo.: 1D9B11
Source: Mouse	ENSEMBL Gene ID: ENSG00000173757	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:400-1:1600
Isotype: IgG2a	UNIPROT ID: P51692	
Immunogen Catalog Number: AG2709	Full Name: signal transducer and activator of transcription 5B	
	Calculated MW: 787 aa, 90 kDa	
	Observed MW: 90 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls:
Cited Applications: WB	WB : Jurkat cells, HEK-293 cells
Species Specificity: human	IF/ICC : HeLa cells, HepG2 cells
Cited Species: mouse	

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 GH. 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. Despite the 95% homology between the immunogen (Ag2709) and the STAT5A protein, our WB detection showed that this antibody does not recognize the STAT5A fusion protein (Ag19546).

Notable Publications

Author	Pubmed ID	Journal	Application
Rochana Pramanik	39831928	Immunol Res	WB

Storage

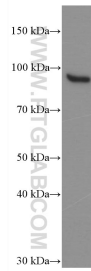
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

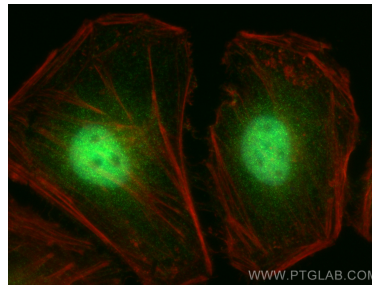
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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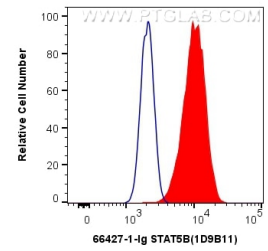
Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 66427-1-Ig (STAT5B Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using STAT5B antibody (66427-1-Ig, Clone: 1D9B11) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).



1X10⁶ HeLa cells were intracellularly stained with 0.5 ug Anti-Human STAT5B (66427-1-Ig, Clone:1D9B11) (red) labeled with FlexAble CoraLite® Plus 555 Antibody Labeling Kit for Mouse IgG2a (KFA042), or 0.5 ug Mouse IgG2a Isotype Control (66360-2-Ig, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).