

For Research Use Only

# Phospho-STAT6 (Tyr641) Recombinant monoclonal antibody, PBS Only

Catalog Number: 86641-1-PBS



## Basic Information

<b>Catalog Number:</b> 86641-1-PBS	<b>GenBank Accession Number:</b> BC005823	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6778	<b>CloneNo.:</b> 250940C12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P42226	
<b>Isotype:</b> IgG	<b>Full Name:</b> signal transducer and activator of transcription 6, interleukin-4 induced	
	<b>Calculated MW:</b> 100 kDa	
	<b>Observed MW:</b> 110 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, FC (Intra), Indirect ELISA

**Species Specificity:**  
human

## Background Information

STAT6, also named as Signal transducer and activator of transcription 6, is a 847 amino acid protein, which belongs to the transcription factor STAT family. p-STAT6(Tyr641) is a biomarker of Th2-high inflammation, targeted by IL-4Ra blockers (dupilumab) and JAK1/3 inhibitors. High p-STAT6 in TAMs correlates with M2 polarization and radioresistance, blocking IL-4 or JAK1/3 decreases Tyr641 phosphorylation and restores anti-tumor immunity. (PMID: 37474750)

## Storage

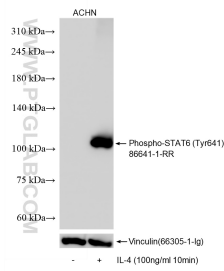
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

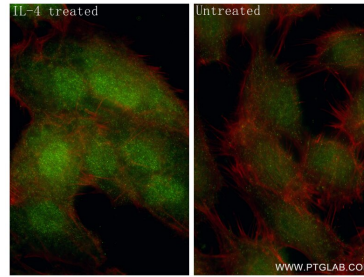
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

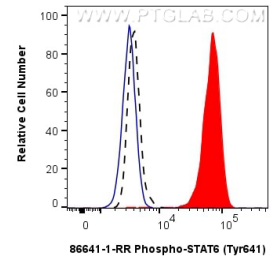
## Selected Validation Data



Non-treated ACHN cells and IL-4 (HZ-1004) treated ACHN cells were subjected to SDS PAGE followed by western blot with 86641-1-RR (Phospho-STAT6 (Tyr641) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (66305-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 86641-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed IL-4 treated ACHN cells using Phospho-STAT6 (Tyr641) antibody (86641-1-RR, Clone: 250940C12 ) at dilution of 1:500 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86641-1-PBS in a different storage buffer formulation.



1X10<sup>6</sup> ACHN cells untreated (dashed lines) or treated with IL-4 treated which intracellularly stained with 0.13 ug Phospho-STAT6 (Tyr641) Recombinant monoclonal antibody (86641-1-RR, Clone:250940C12) and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein