

For Research Use Only

Phospho-STAT6 (Tyr641) Recombinant monoclonal antibody

Catalog Number: 86641-1-RR



Basic Information

Catalog Number:

86641-1-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC005823

GeneID (NCBI):

6778

UNIPROT ID:

P42226

Full Name:

signal transducer and activator of transcription 6, interleukin-4 induced

Calculated MW:

100 kDa

Observed MW:

110 kDa

Purification Method:

Protein A purification

CloneNo.:

250940C12

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:250-1:1000

FC (Intra): 0.13 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB: IL-4 treated ACHN cells,

IF/ICC: IL-4 treated ACHN cells,

FC (Intra): IL-4 treated ACHN cells,

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-4R α 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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

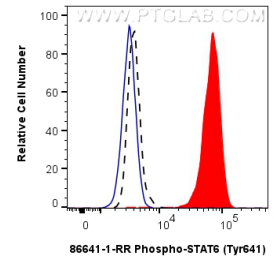
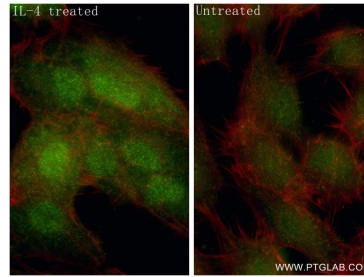
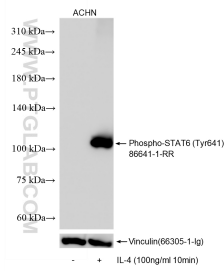
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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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.

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).

1X10⁶ 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