Phospho-STAT6 (Tyr641) Monoclonal Antibody (CHI2S4N), PE-eFluor™ 610, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human, Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CHI2S4N
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574673

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	3 Publications

Product Specific Information

Description: This CHI2S4N monoclonal antibody recognizes human and mouse signal transducer and activator of transcription 6 (STAT6) when phosphorylated on tyrosine 641. Following their phosphorylation by JAKs, STAT proteins translocate to the nucleus where they bind to DNA and regulate transcription of specific genes in a cell type- and cytokine-specific manner. In response to IL-4, STAT6 is phosphorylated on tyrosine 641 by JAK1 and JAK3. STAT6 signaling downstream of the IL-4 receptor promotes T cell growth and B cell production of IgE.

Specificity of this CHI2S4N clone was determined by ELISA and flow cytometry.

Applications Reported: This CHI2S4N antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This CHI2S4N antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Staining Protocol: We recommend using Protocol C: Two-step protocol: Fixation/Methanol. Protocol A: Two-step protocol: intracellular (cytoplasmic) proteins and Protocol B: One-step protocol: intracellular (nuclear) proteins cannot be used. All Protocols can be found in the Flow Cytometry Protocols: "Staining Intracellular Antigens for Flow Cytometry Protocol" located in the Best Protocols Section under the Resources tab online.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochome.

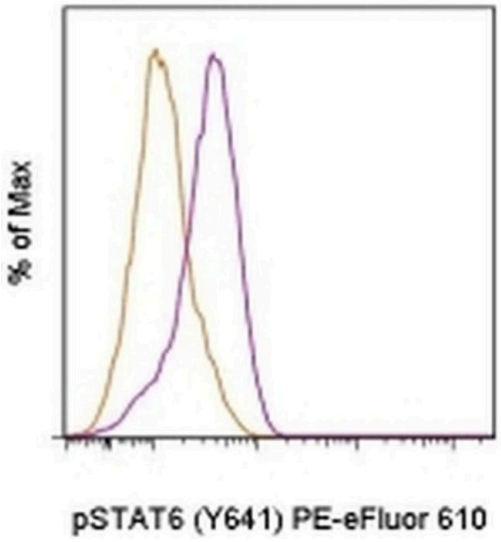
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Phospho-STAT6 (Tyr641) Monoclonal Antibody (CHI2S4N), PE-eFluor™ 610, eBioscience™



Phospho-STAT6 (Tyr641) Antibody (61-9013-41) in Flow
Intracellular staining of unstimulated (orange histogram) or 15-minute IL-4-stimulated (purple histogram) Th2-polarized CD4+ T cells with Anti-Human /Mouse phospho-STAT6 (Y641) PE-eFluor® 610. CD4+ cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

3 References

Flow Cytometry (3)

Nature communications

Year
2022

Neutrophil extracellular traps and their histones promote Th17 cell differentiation directly via TLR2.

"Published figure using Phospho-STAT6 (Tyr641) monoclonal antibody (Product # 61-9013-41) in Flow Cytometry"

Authors: Wilson AS,Randall KL,Pettitt JA,Ellyard JI,Blumenthal A,Enders A,Quah BJ,Bopp T,Parish CR,Brüstle A

The Journal of experimental medicine

Year
2020

The Toxoplasma gondii virulence factor ROP16 acts in cis and trans, and suppresses T cell responses.

"Published figure using Phospho-STAT6 (Tyr641) monoclonal antibody (Product # 61-9013-41) in Flow Cytometry"

Authors: Chen L,Christian DA,Kochanowsky JA,Phan AT,Clark JT,Wang S,Berry C,Oh J,Chen X,Roos DS,Beiting DP, Koshy AA,Hunter CA

View more Flow references on thermofisher.cn