

Phospho-STAT5 (Tyr694) Monoclonal Antibody (SRBCZX), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SRBCZX
Conjugate	APC
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573272

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	7 Publications

Product Specific Information

Description: This SRBCZX monoclonal antibody recognizes signal transducer and activator of transcription 5 (STAT5) when phosphorylated on tyrosine 694. STAT proteins are activated by ligand binding to receptors, such as cytokine receptors, that associate with Janus kinase (JAK) family members. 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 cytokines that signal through the common gamma chain such as IL-2, IL-7, and IL-15, STAT5 is phosphorylated on tyrosine 694 by JAK1 and JAK3. Cytokines such as IL-3, IL-5, and GM-CSF that signal via the common beta chain induce STAT5 phosphorylation on tyrosine 694 by JAK 2. Phosphorylation of STAT5 on tyrosine 694 is essential for STAT5 dimer formation, nuclear translocation, and DNA binding activity.

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

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

Applications Tested: This SRBCZX antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of stimulated normal peripheral blood cells. This can be used at 5 µL (0.25 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

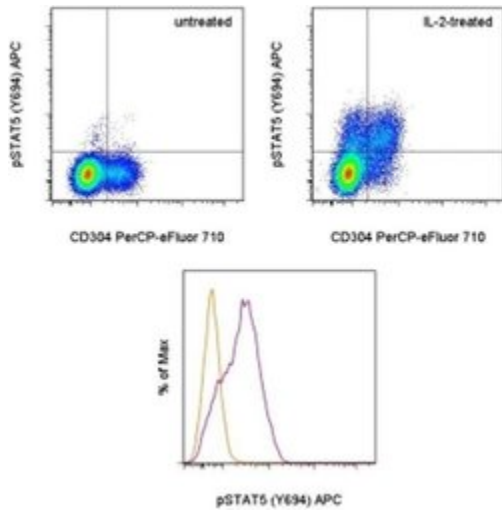
range from 10⁵ to 10⁸ cells/test.

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.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Phospho-STAT5 (Tyr694) Monoclonal Antibody (SRBCZX), APC, eBioscience™



Phospho-STAT5 (Tyr694) Antibody (17-9010-42) in Flow

TOP: Intracellular staining of untreated (left) or 15-minute IL-2-treated (right) mouse splenocytes with Anti-Mouse CD304 (Neuropilin-1) PerCP-eFluor® 710 (Product # 46-3041-82) and Anti-Human/Mouse phospho-STAT5 (Y694) APC. CD4⁺ cells in the lymphocyte gate were used for analysis. BOTTOM: Intracellular staining of untreated (orange histogram) or 15-minute IL-2-treated (purple histogram) mouse splenocytes with Anti-Human/Mouse phospho-STAT5 (Y694) APC. CD4⁺CD304⁺ cells in the lymphocyte gate were used for analysis. In both panels, cells were stained using the Fixation/Methanol protocol.

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Flow Cytometry (7)

Oncoimmunology

Identification of inhibitors of myeloid-derived suppressor cells activity through phenotypic chemical screening.

"17-9010 was used in Flow cytometry/Cell sorting to develop a system based on immortalised progenitors that allows straightforward investigation of myeloid cells, and the identification of drugs targeting myeloid cells with immunosuppressive activities."

Authors: Schröder M,Loos S,Naumann SK,Bachran C,Kröttschel M,Umansky V,Helming L,Swee LK

Species
Mouse

Dilution
Not Cited

Year
2019

Cell reports

Differential Roles of IL-2 Signaling in Developing versus Mature Tregs.

"17-9010 was used in Flow cytometry/Cell sorting to study the differential roles of IL-2 signalling in developing versus mature regulatory T cells."

Authors: Fan MY,Low JS,Tanimine N,Finn KK,Priyadharshini B,Germana SK,Kaech SM,Turka LA

Species
Mouse

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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