

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

Product Details	
Size	100 Tests
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SRBCZX
Conjugate	PE
Excitation/Emission Max	565/576 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_2572671

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	16 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 human 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

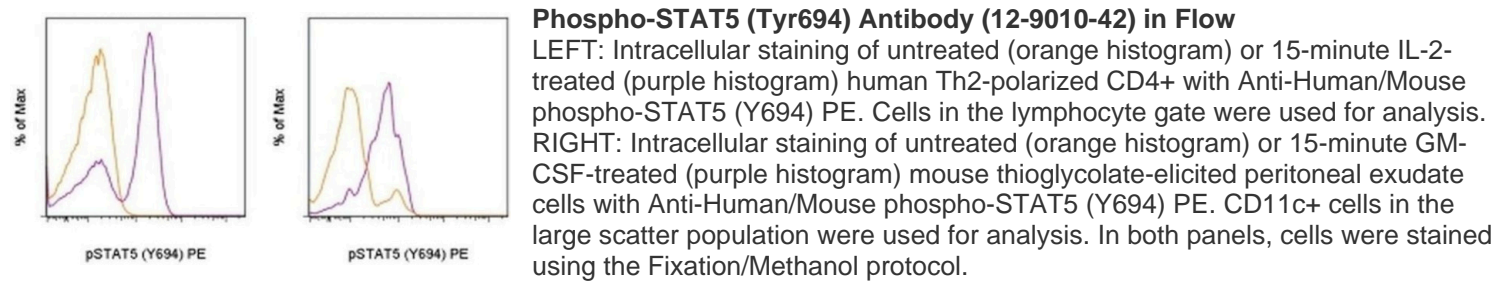
determined empirically but can range from 10⁵ to 10⁸ cells/test.

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: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



[View more figures on thermofisher.com](#)

Western Blot (1)

Toxicology letters Environmentally relevant concentrations of arsenite and monomethylarsonous acid inhibit IL-7/STAT5 cytokine signaling pathways in mouse CD3+CD4-CD8- double negative thymus cells. "12-9010 was used in Western Blotting to suggest that arsenic at environmentally-relevant doses suppresses early T-cell development through inhibition of IL-7 signaling." Authors: Xu H,Lauer FT,Liu KJ,Hudson LG,Burchiel SW	Year 2016 Species Mouse
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------

Flow Cytometry (16)

Journal of translational medicine GM-CSF impairs erythropoiesis by disrupting erythroblastic island formation via macrophages. "Published figure using Phospho-STAT5 (Tyr694) monoclonal antibody (Product # 12-9010-42) in Flow Cytometry" Authors: Cao W,Fan W,Wang F,Zhang Y,Wu G,Shi X,Shi JX,Gao F,Yan M,Guo R,Li Y,Li W,Du C,Jiang Z	Year 2022 Species Mouse
Journal for immunotherapy of cancer Aged neutrophils form mitochondria-dependent vital NETs to promote breast cancer lung metastasis. "12-9010-42 was used in Flow Cytometry to investigate the existence and biological function of a rarely delved subset of neutrophils, named as tumor-associated aged neutrophils (Naged, CXCR4+CD62Llow), involved in premetastatic niche formation during breast cancer metastasis." Authors: Yang C,Wang Z,Li L,Zhang Z,Jin X,Wu P,Sun S,Pan J,Su K,Jia F,Zhang L,Wang H,Yu X,Shao X,Wang K,Qiu F,Yan J,Huang J	Year 2021 Species Human Mouse

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

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.