



Phospho-STAT3 (Tyr705) Monoclonal Antibody (LUVNKLA), PE, eBioscience™

Product Details	
Size	100 Tests
Species reactivity	Human, Mouse
Published species	Human, Mouse
Host / Isotype	Mouse / IgG2b, kappa
Class	Monoclonal
Туре	Antibody
Clone	LUVNKLA
Conjugate	PE
Form	Liquid
Concentration	5 μL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2572679

Lot Number: 3268467

Applications	Tested Dilution	Publications
ChIP Assay (ChIP)	-	1 Publication
Flow Cytometry (Flow)	5 μL (0.06 μg)/test	7 Publications

Product Specific Information

Description: This LUVNKLA monoclonal antibody recognizes human and mouse signal transducer and activator of transcription 3 (STAT3) when phosphorylated on tyrosine 705 (Y705). The STAT family represents seven transcription factors (STATs 1, 2, 3, 4, 5A, 5B, and 6) that are involved in many cellular processes including apoptosis, cell differentiation, and proliferation in a cell type- and cytokine-specific manner. STAT proteins are activated by ligand binding to 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. STAT3 is activated downstream of numerous cytokines including interferons, IL-5, IL-6, IL-10, and LIF. STAT3 is important for the differentiation of Th17 cells and mediates a variety of cellular processes including cell growth and survival. The importance of STAT3 is highlighted by both loss-of-function and gain-of-function mutations. Deletion of STAT3 in T cells results in decreased IL-6- and IL-2-mediated proliferation, while deletion of STAT3 in neutrophils and macrophages results in increased susceptibility to LPS-induced endotoxic shock and increased production of the pro-inflammatory cytokines IL-6 and TNF alpha. Hyper STAT3 activity is associated with poor prognosis of many different cancers. Applications Reported:This LUVNKLA antibody has been reported for use in intracellular staining followed by flow cytometric analysis. Applications Tested: This LUVNKLA antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of normal

Applications Tested: This LUVNKLA antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 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 BestProtocols@ 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.

Visit thermofisher.com to view references and figures.

Products are under warranty for one year from the date of shipment unless otherwise stated on this document or the product label.

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