

Phospho-ZAP70/Syk (Tyr319, Tyr352) Monoclonal Antibody (n3kobu5), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Mouse
Host/Isotope	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	n3kobu5
Conjugate	PE-Cyanine7
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!

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	5 µL (0.06 µg)/test	

Product Specific Information

Description: This n3kobu5 monoclonal antibody recognizes human and mouse zeta chain-associated protein of 70 kD (also known as ZAP-70) and spleen tyrosine kinase (also known as SYK) when phosphorylated on Y319 and Y352, respectively. ZAP-70 and SYK are members of the SYK protein tyrosine kinase (PTK) family that are phosphorylated and activated by Src family PTKs. ZAP-70/SYK Y319/Y352 are located in the so-called interdomain of ZAP-70/SYK (between the N-terminal dual SH2 domains and the C-terminal kinase domain).

Phosphorylation of ZAP-70 Y319 by Lck is necessary for T cell receptor (TCR)-dependent association of ZAP-70 with Lck and phospholipase C gamma and subsequent activation of calcium-dependent and Ras signaling cascades. SYK Y352 phosphorylation by Fyn/Lyn is critical for propagation of B cell receptor (BCR) signaling and for B cell development.

Specificity of this n3kobu5 clone was determined by ELISA, flow cytometry, and western blotting.

Applications Reported: This n3kobu5 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This n3kobu5 antibody has been pre-diluted and tested by intracellular staining and flow cytometric analysis of sodium pervanadate-treated mouse splenocytes using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol A: Two step protocol for intracellular (cytoplasmic) proteins" located at www.thermofisher.com/flowprotocols. This may 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

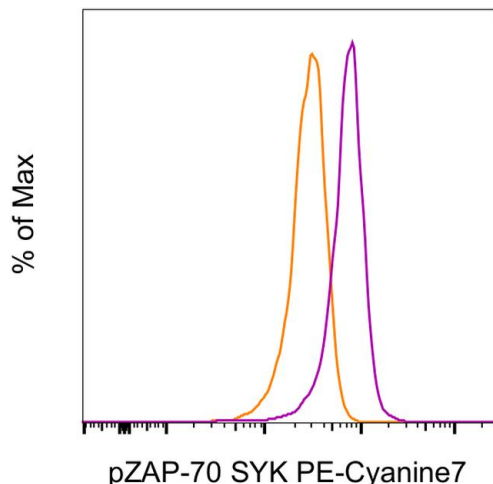
determined empirically but can range from 10^5 to 10^8 cells/test.

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 (Product # 00-8222-49) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For Phospho-ZAP70/Syk (Tyr319, Tyr352) Monoclonal Antibody (n3kobu5), PE-Cyanine7, eBioscience™



Phospho-ZAP70/Syk (Tyr319, Tyr352) Antibody (25-9006-42) in Flow C57BL/6 mouse splenocytes were untreated (orange histogram) or treated for 5 minutes with hydrogen peroxide-activated sodium pervanadate. Cells were then stained intracellularly, using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) and protocol, with CD3 Monoclonal Antibody, eFluor 450 (Product # 48-0032-82) and 0.06 μ g of Phospho-ZAP70/Syk (Tyr319, Tyr352) Monoclonal Antibody, PE-Cyanine7 (purple histogram). Lymphocytes in the CD3-positive gate were used for analysis.

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.