SONY

Product Data Sheet

Alexa Fluor® 647 anti-ZAP70

Catalog # / Size: 4056030 / 100 tests
4056025 / 25 tests

Clone: A15114B

Isotype: Mouse IgG2b, κ

Immunogen: KLH-peptide surrounding ZAP70 Y319.

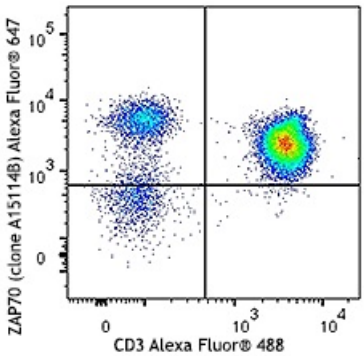
Reactivity: Human, Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: V B-CD73.3

Concentration: Lot-specific



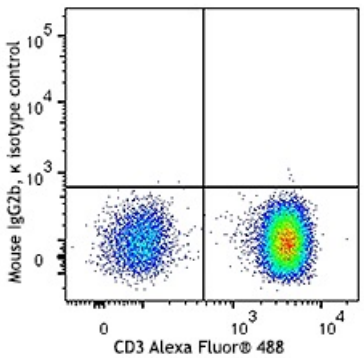
Human peripheral blood lymphocytes were fixed with Fixation Buffer (Cat No. 420801), permeabilized with cold True-Phos™ Perm Buffer (Cat No. 425401), then stained with CD3 Alexa Fluor® 488 and anti-ZAP70 (clone A15114B) Alexa Fluor® 647 (top) or mouse IgG2b, κ PE (Bottom).

Applications:

Applications: Intracellular Staining for Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.



Human peripheral blood lymphocytes were fixed with Fixation Buffer (Cat No. 420801)

Application Notes: This clone shows high pan-reactivity to STAT3 when used for WB.This recombinant antibody clone is derived from clone A16002B.

Application References:

1. Chan AC, *et al.* 1992. *Cell.* 71:649.
2. Chan AC, *et al.* 1994. *Science.* 264:1599.
3. Arpaia E, *et al.* 1994. *Cell.* 76:947.

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Description: ZAP70 is a 70 kD protein tyrosine kinase associated with the zeta chain of the T cell receptor. It is expressed in T cells and NK cells and has been shown to be involved in T cell signaling. Defects in ZAP70 have been linked to selective T cell defects. The ZAP70 kinase undergoes multiple phosphorylation events after T cell receptor engagement and interacts with a number of proteins involved in signal transduction. Recently, ZAP70 has been identified as an important prognostic marker in B-cell chronic lymphocytic leukemia (B-CLL).

Antigen References:

1. Chan AC, *et al.* 1992. *Cell.* 71:649.
2. Chan AC, *et al.* 1994. *Science.* 264:1599.
3. Arpaia E, *et al.* 1994. *Cell.* 76:947.

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