

Alexa Fluor® 488 anti-ZAP-70

Catalog # / Size: 4067530 / 100 tests
4067525 / 25 tests

Clone: A16043B

Isotype: Mouse IgG1, κ

Reactivity: Human, Mouse

Concentration: Lot-specific

Applications:

Applications: Flow Cytometry

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

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

Description: ZAP-70 is a 70kD protein expressed near the surface membrane of T-cells and NK cells. It is part of the intracellular signaling mechanism of the T-cell receptor, and plays integral role in T-cell signaling where it interacts with CD3- ζ to phosphorylate transmembrane protein LAT, which facilitates the binding of many signaling proteins. ZAP-70 plays a key role in the activation of T-cells, and their subsequent proliferation, differentiation, and production of cytokines in response to varied stimuli. It is used clinically as a prognostic marker helping differentiate the various types of chronic lymphocytic leukemia (CLL).