

# Anti-pZAP70 [Y319]/pSyk[Y352]-171Yb

Catalog: 3171005A

Clone: 17a

Package size: 50 tests

Isotype: Mouse IgG1

Storage: Store product at 4 °C. Do not freeze.

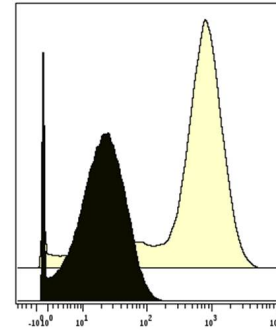
Formulation: Antibody stabilizer with 0.05% sodium azide

Cross-reactivity: Rat, Mouse, Human

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control-tested by CyTOF<sup>®</sup> analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended usage:** The suggested use is 1 µL for up to 3 × 10<sup>6</sup> live cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



pZAP70 [Y319]/pSyk [Y352] (17a)-171Yb

Human Jurkat T cells were incubated for 15 minutes in media alone (bottom) or with pervanadate (top). Cells were then fixed, permeabilized and stained with 171Yb-anti-pZAP70 [Y319]/pSyk [Y352] (17a).

## Description

ZAP70 is a protein tyrosine kinase (PTK) that associates with the z subunit of the T cell antigen receptor (TCR) and undergoes tyrosine phosphorylation following TCR stimulation. Clone 7A/P-ZAP70 recognizes the phosphorylated form of ZAP70 (Y319). It also cross-reacts with SYK (Y352) due to homology of the phosphorylation site with ZAP70 (Y319).

## References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

Bendall, S. C., et al. Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. *Science* (6 May 2011): 687–96.

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