

# Anti-pCrkL [Y207]-143Nd

Catalog: 3143005A

Package size: 50 tests

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

Cross-reactivity: Rat, Mouse, Human, Monkey

Clone: Polyclonal

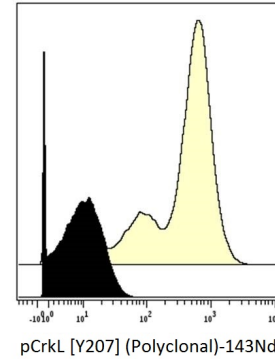
Isotype: Rabbit Polyclonal

Formulation: Antibody stabilizer with 0.05% sodium azide

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control-tested by CyTOF® 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 x 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.



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 143Nd-anti-pCrkL [Y207] (polyclonal).

## Description

CrkL is an adapter protein that links signaling components such as tyrosine kinases and small G proteins. CrkL is involved in regulation of diverse cellular processes, including cytokine responses, cell adhesion, cell migration and immune activation. CrkL is required for activity of the oncogenic BCR-ABL fusion protein and is phosphorylated at Tyr207 in chronic myeloid leukemia neutrophils, but not in healthy neutrophils. Overexpression of CrkL in human bronchial epithelial cells promotes cell proliferation and cyclin expression. CrkL is closely related to CrkII, and this antibody cross-reacts with CrkII phosphorylated at Tyr221.

## 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* (2011): 687–96.

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