

# Anti-Phospho-Tyrosine-144Nd

Catalog: 3144003A

Package Size: 50 tests

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

Reactivity: All,

Clone: P-Tyr-100

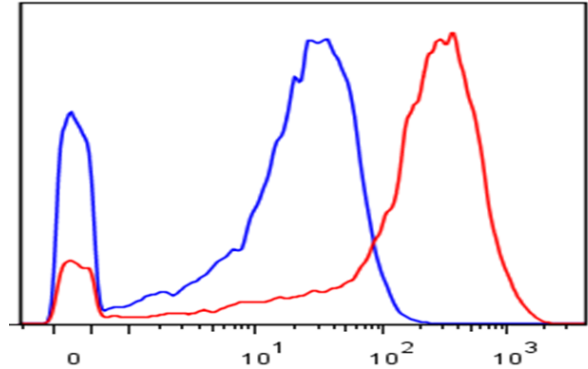
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## 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  $\mu$ l for up to  $3 \times 10^6$  live cells in 100  $\mu$ l. 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 (blue) or with pervanadate (red). Cells were then fixed, permeabilized, and stained with <sup>144</sup>Nd-anti-phospho-Tyrosine (P-Tyr-100).

## Description

An essential mechanism of cellular signal transduction is the phosphorylation of proteins at tyrosine, threonine, and serine residues. An increase in total cellular phosphotyrosine levels indicates a shift in the balance of tyrosine protein kinases and phosphatases. Constitutively high total phosphotyrosine levels can be indicative of a dysregulated kinase, as in the case of the oncogenic BCR-ABL fusion protein.

## 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* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

### For technical support visit [fluidigm.com/support](http://fluidigm.com/support)

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