

# Anti-Human p53-143Nd

Catalog: 3143018A

Package Size: 50 tests

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

Reactivity: Monkey

Clone: 7F5

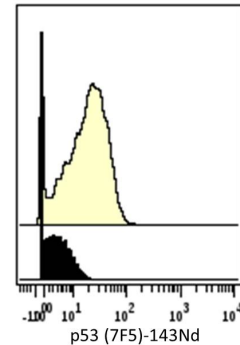
Isotype: IgG

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 HeLa cells (top) and human Jurkat cells (bottom) were fixed, permeabilized, and stained with 143Nd-anti-p53 (7F5).

## Description

Tumor protein p53 (TP53) is a 53kD tetramer protein that prevents cancer formation and functions as a tumor suppressor. This protein is localized to the nucleus when activated and can be upregulated by genotoxic or other cellular stresses. p53 is phosphorylated at multiple sites in vivo and by several different protein kinases in vitro. It is a transcriptional activator of genes that inhibit growth and/or invasion, cell cycle checkpoint after irradiation, DNA repair, apoptotic induction, signal transduction, and cell adhesion.

## 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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