Anti-Human p53-150Nd

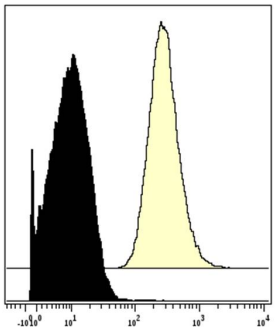
Catalog: 3150024A
Package Size: 50 tests
Storage: Store product at 4°C. Do not freeze.
Reactivity: Human

Clone: DO-7
Isotype: Mouse IgG2b
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 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human U-87 MG cells (top) and human Jurkat cells (bottom) were fixed, permeabilized, and stained with 150Nd-anti- p53 (DO-7). Total viable cells are displayed in analysis.

Description

p53 is a 53 kDa protein that operates as a tumor suppressor and helps regulate hundreds of genes in response to various types of stress. DNA binding is critical for the biological functions of p53. p53 can recognize specific DNA sequences or geometries. The sequence-specific DNA binding mainly relates to the transcription function of p53 to selectively bind its transcription targets. The p53 response element (p53RE) or p53-binding sites have two half-site palindromes. The structure of p53 contains an N-terminal transactivation domain, a DNA-binding core domain, a C-terminal tetramerization and a regulatory domain. Proper p53–DNA binding requires a well-folded DNA-binding domain and a p53 homotetramer.

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.

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