

# Anti-Histone 3-176Yb

Catalog: 3176016A

Package Size: 50 tests

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

Reactivity: Rat, Mouse, Human, Bovine, Hamster, Monkey

Clone: D1H2

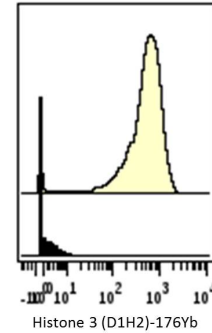
Isotype: IgG

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.



Permeabilized Hela cells (top) or non-permeabilized Hela cells (bottom) were stained with 176Yb-anti- Histone 3 (D1H2).

## Description

Histone 3 is a 17 kD nuclear protein that is a component of an octamer containing pairs of each of four core histones (H2A, H2B, H3, H4). Histone 3, featured by a main globular domain and a long N-terminal tail, is involved with nucleosome structure of chromosomal fiber in eukaryotes. Histone 3 can be modified by phosphorylation, acetylation, ubiquitination, ribosylation, and methylation. The N-terminal tail of histone 3 protrudes from the globular nucleosome core and can undergo several different types of post-translational modification that influence cellular processes.

## 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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