

Anti-Histone H3-176Yb

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3176023D

Package size and concentration: 25 µg, 0.5 mg/mL

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

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

Clone: D1H2

Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

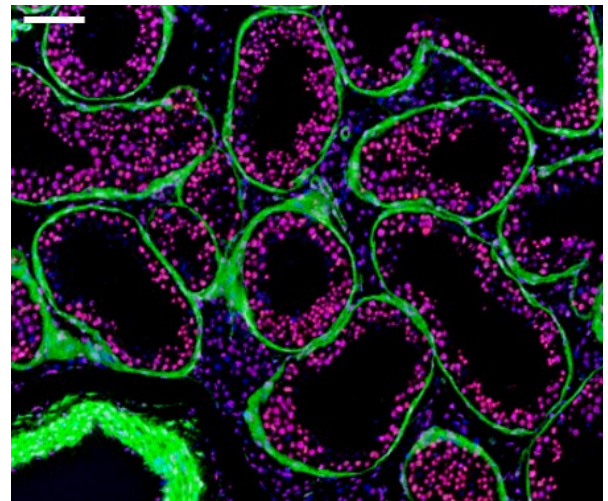
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

Quality control: Each lot of conjugated antibody is quality control-tested by Imaging Mass Cytometry on tissue sections.

Recommended concentration: For optimal performance it is recommended that the antibody be titrated for the desired application. Suggested initial dilution range: IMC-Paraffin: 1:150 to 1:600

Description

Histone 3 is a 17 kDa nuclear protein that is a component of an octamer containing pairs of each of four core histones (H2A, H2B, H3, H4). Histone 3, featuring 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.



Human testis (FFPE) stained with 176Yb-anti-histone H3 (D1H2) at a dilution of 1:300 (red pseudocolor), 141Pr-anti-αSMA (1A4) (green pseudocolor), and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 µm.

References

Chang, Q. et al. "Staining of frozen and formalin-fixed, paraffin-embedded tissues with metal-labeled antibodies for imaging mass cytometry analysis." *Current Protocols in Cytometry* 82 (2017): 12.47.1–12.47.8.

Giesen, C. et al. "Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry." *Nature Methods* 11 (2014): 417–22.

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