

Anti-Human c-Myc p67-164Dy

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3164025D

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

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

Reactivity: Human

Clone: 9E10

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

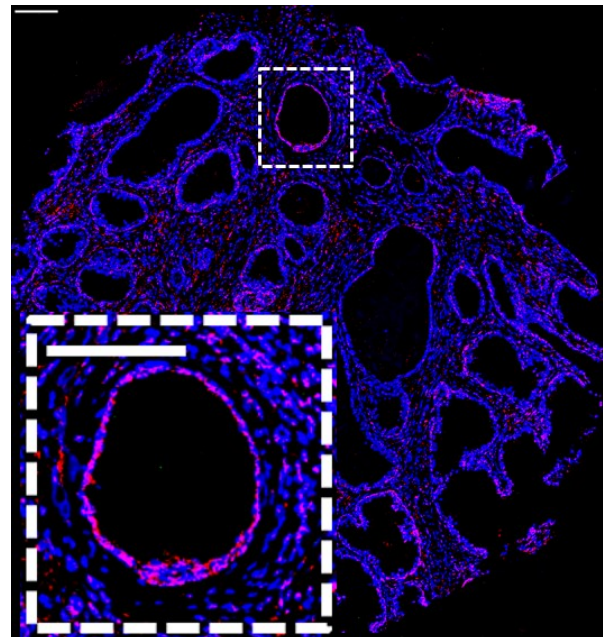
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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: 1:50 to 1:200

Description

c-myc protein is a 62 kDa transcription factor that binds to DNA and activates transcription as part of a heterodimeric complex with Max. c-myc is a very strong proto-oncogene that is involved in cell growth, apoptosis, metabolism and tumorigenesis. Aberrant expression of the c-myc gene occurs in tumors of different origins such as colorectal, gastric, gallbladder, hepatic, mammary, ovarian, endometrial, head and neck, pulmonary, prostatic, thyroidal, oral, ocular, nasopharyngeal and endocrine cells, as well as hematopoietic neoplasms. The 9E10 monoclonal antibody recognizes human myc and the 10 amino acid epitope tag of human c-myc.



Human prostate (FFPE) stained with 164Dy-anti-c-Myc p67 (9E10) at a dilution of 1:100 (red 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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