

# Anti-c-Myc p67 (9E10)-164Dy

## Pathologist-Verified Clone for Imaging Mass Cytometry™

**Catalog number:** 3164025D

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

**Clone:** 9E10

**Isotype:** Mouse IgG1

**Pathologist-verified on:** Human FFPE

**Fluidigm tested on:** Human FFPE, Mouse FFPE

**Reported reactivity:** Human, Mouse

**Formulation:** Antibody stabilizer with 0.05% sodium azide

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

**Application:** IMC paraffin

## Technical Information

**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.

**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

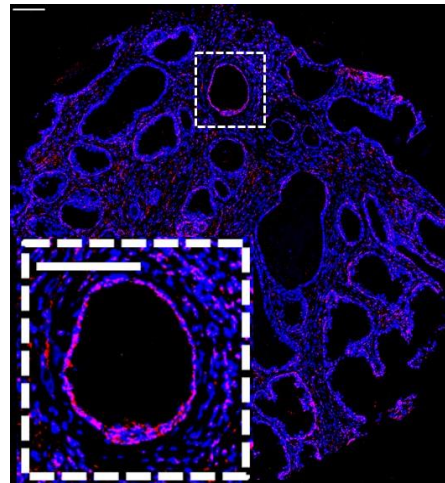
## References

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.

## Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to [fluidigm.com/sds](http://fluidigm.com/sds) and search for the SDS using either the product name or the part number.



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.

**For technical support visit [techsupport.fluidigm.com](http://techsupport.fluidigm.com). | For general support visit [fluidigm.com/support](http://fluidigm.com/support).**

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