Anti-Ki-67-168Er

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3168022D
Package size and concentration: 25 µg, 0.5 mg/mL
Storage: Store at 4 °C. Do not freeze.
Reactivity: Rat, Mouse, Human, Porcine

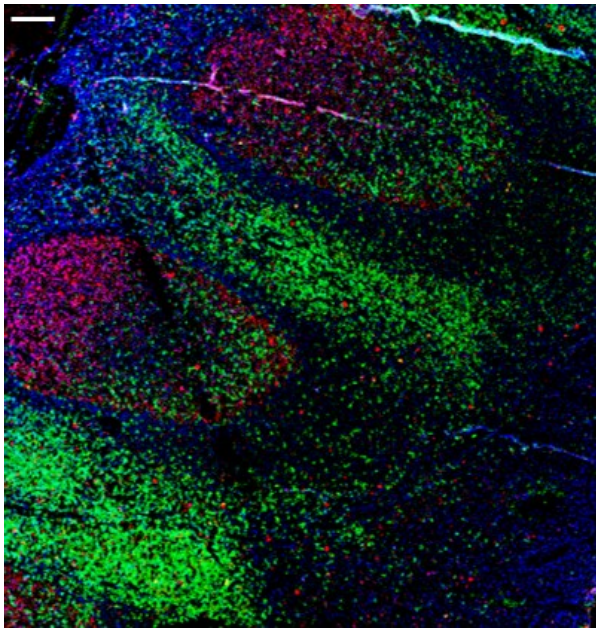
Clone: B56
Isotype: Mouse IgG1
Formulation: Antibody stabilizer with 0.05% sodium azide
Application: IMC-Paraffin

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: 1:25 to 1:100



Human tonsil (FFPE) stained with 168Er-anti-Ki-67 (B56) at a dilution of 1:50 (red pseudocolor), 170Er-anti-CD3 (poly) (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.

Description

Ki-67 protein, also known as MKI67, is a nuclear protein that is associated with cellular proliferation. Ki-67 protein is expressed in all cell types. It is present during active phases of the cell cycle (G1, S, G2 and mitosis) and not during the resting phase, G0. Because of this, Ki-67 is an excellent marker for determining the fraction of proliferating cells within a given population of cells.

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.