

Anti-Perforin (dG9)-176Yb

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3176026D

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

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

Reactivity: Human, Cross-Reactivity: Bovine (Cow, Cattle)

Clone: dG9

Isotype: Mouse IgG2b

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC frozen

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 frozen 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 frozen: 1:25 to 1:100

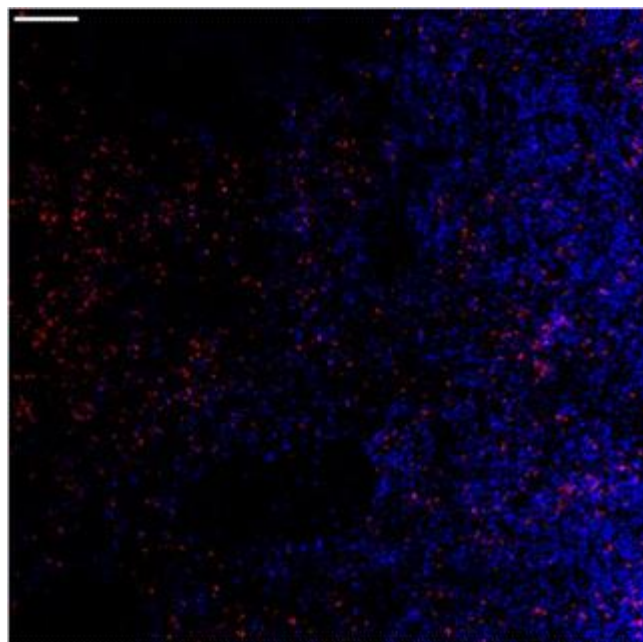
Description

Perforin, a 70 kDa cytolytic protein, is found in the granules of cytotoxic T lymphocytes (CTLs) and natural killer (NK) cells. This protein is one of the main cytolytic proteins in granules, and it is known to be a key effector molecule for T cell- and natural killer cell-mediated cell lysis.

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.



Human frozen spleen stained with 176Yb-anti-perforin (dG9) at a dilution of 1:50 (red pseudocolor) and iridium DNA intercalator (blue pseudocolor). Tissue section was fixed in 4% paraformaldehyde for 30 minutes at 4°C. Scale bar size = 100 µm.

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