

Anti-CD127/IL-7R α [EPR2955(2)]-168Er

Pathologist-Verified Clone for Imaging Mass Cytometry[™]

Catalog number: 3168026D

Package size and concentration: 25 μ g, 0.5 mg/mL

Clone: EPR2955(2)

Isotype: Rabbit IgG

Pathologist-verified on: Human FFPE

Fluidigm tested on: Human FFPE, Mouse FFPE

Reported reactivity: Human, Mouse, Rat

Formulation: Antibody stabilizer with 0.05% sodium azide

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

Application: IMC paraffin

Technical Information

Description: CD127, also known as the IL-7 receptor α chain or IL-7R α , is a 60–90 kDa type I transmembrane glycoprotein. It is a heterodimer consisting of IL-7R α (CD127) and common- γ chain receptor (CD132), which is shared with various cytokines including IL-2, -4, -9, -13, -15, and -21. CD127 is expressed on immature B through early pre-B stage cells, thymocytes (except CD4/CD8 double-positive thymocytes), peripheral T cells, and bone marrow stromal cells. It is a useful marker for identifying memory and effector T cells and differentiation of Treg and conventional T cells.

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

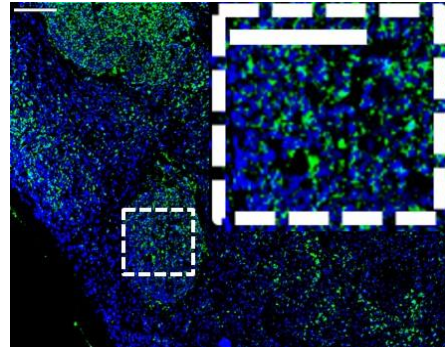
References

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 and search for the SDS using either the product name or the part number.



Human lymph node (FFPE) stained with 168Er-anti-CD127 [EPR2955(2)] at a dilution of 1:50 (green pseudocolor) and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 μ m.

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