Anti-Human CD4-156Gd

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3156033D
Package size and concentration: 25 µg, 0.5 mg/mL
Storage: Store at 4 °C. Do not freeze.
Reactivity: Human

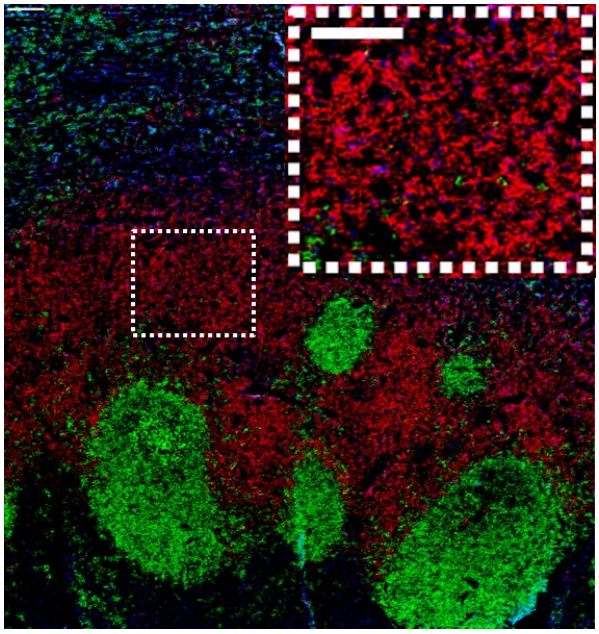
Clone: EPR6855
Isotype: Rabbit IgG
Formulation: Antibody stabilizer with 0.05% sodium azide
Application: IMC-Paraffin

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: 1:100 to 1:400



Human tonsil (FFPE) stained with 156Gd-anti-CD4 (ERP6855) at a dilution of 1:200 (red pseudocolor), 161Dy-anti-CD20 (H1) (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

CD4, also known as T4, is a transmembrane glycoprotein expressed on the helper subset of T cells (thymocytes) and on immature T cells in the thymus, and weakly on monocytes and dendritic cells. CD4 helps recognize antigens associated with MHC class II molecules via initiation of signal transduction and control of cell-cell interaction.

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.