

Anti-CD4 (RPA-T4)-156Gd

Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3156036D

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

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

Reactivity: Human, Chimpanzee, Cynomolgus

Clone: RPA-T4

Isotype: Mouse IgG1

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: 1:50 to 1:200

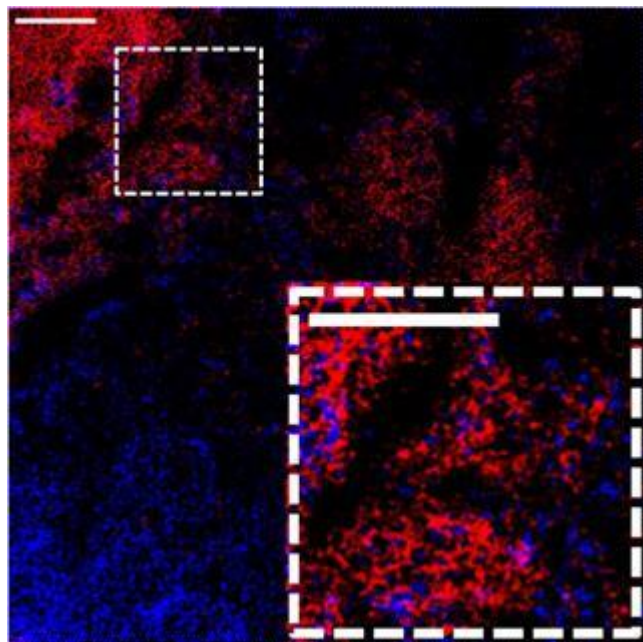
Description

CD4, also known as T4, is a transmembrane glycoprotein expressed on the helper subset of T cells (thymocytes), 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 controlling cell-to-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.



Human frozen tonsil stained with 156Gd-anti-CD4 (RPA-T4) at a dilution of 1:100 (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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