

Anti-Human CD45RO-173Yb

Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3173016D

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

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

Reactivity: Cynomolgus Monkey, Rhesus, Chimpanzee, Human

Clone: UCHL1

Isotype: Mouse IgG2a

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC paraffin, 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 formalin-fixed, paraffin-embedded (FFPE) and 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 paraffin: 1:25 to 1:100

IMC frozen: 1:50 to 1:200

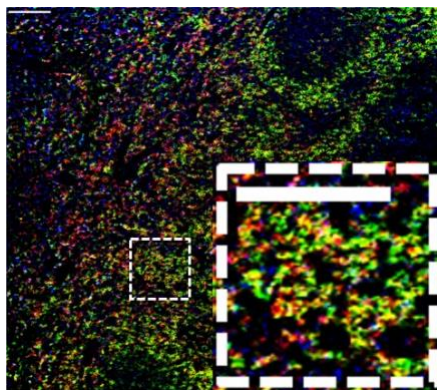
Description

CD45RO, a splice variant of CD45, is a single-chain membrane glycoprotein in the protein tyrosine phosphatase (PTP) family. It is expressed on activated memory T cells, B cell subsets, activated monocytes/macrophages, and granulocytes.

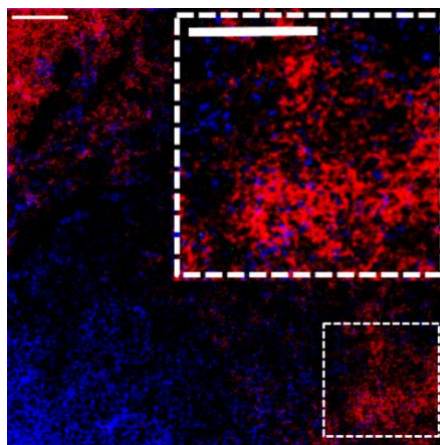
References

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 tonsil (FFPE) stained with 173Yb-anti-CD45RO (UCLH1) at a dilution of 1:50 (green pseudocolor), 170Er-anti-CD3 (poly) (red pseudocolor), and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 µm.



Human frozen tonsil stained with 173Yb-anti-CD45RA (UCLH1) 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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