Anti-Human CD15-149Sm

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3149026D
Package size and concentration: 25 µg, 0.5 mg/mL
Storage: Store at 4 °C. Do not freeze.
Reactivity: Human

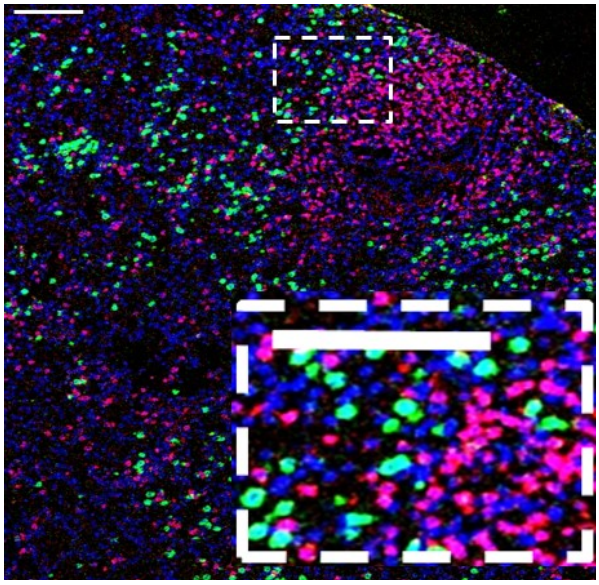
Clone: W6D3
Isotype: Mouse IgG1
Formulation: Antibody stabilizer with 0.05% sodium azide
Application: IMC-Paraffin

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: 1:25 to 1:100



Human spleen (FFPE) stained with 149Sm-anti-CD15 (W6D3) 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.

Description

CD15, also known as Lewis X, 3-FAL and SSEA-1, is a carbohydrate adhesion molecule, 3-fucosyl-N-acetyllactosamine (3-FAL). It is expressed by granulocytes and in varying degrees by monocytes. It is expressed in patients with Hodgkin's disease, some B cell chronic lymphocytic leukemias, acute lymphoblastic leukemias and most acute nonlymphocytic leukemias.

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.