

Anti-CD74 (LN2)-166Er

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog number: 3166025D

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

Clone: LN2

Isotype: Mouse IgG1

Pathologist-verified on: Human FFPE

Fluidigm tested on: Human FFPE, Mouse FFPE

Reported reactivity: Human, Mouse, Rhesus, Olive Baboon

Formulation: Antibody stabilizer with 0.05% sodium azide

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

Application: IMC paraffin

Technical Information

Description: The LN2 monoclonal antibody binds specifically to CD74, a type II transmembrane glycoprotein also known as MHC class II-associated invariant chain, MHC class II chaperone, and MIF receptor. CD74 has 4 isoforms of 33 kDa, 35 kDa, 41 kDa, and 43 kDa, which are splice variants. CD74 is weakly expressed on B cells, monocytes, and macrophages. Reports have also shown CD74 expression on Langerhans cells, dendritic cells, some activated T cells, and thymic epithelium. CD74 is primarily thought to function as an intracellular sorter of MHC class II molecules and regulator of exogenous peptide loading onto MHC class II. There have also been reports showing that CD74 is involved in positive selection of CD4+ T cells and modulation of B cell differentiation.

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

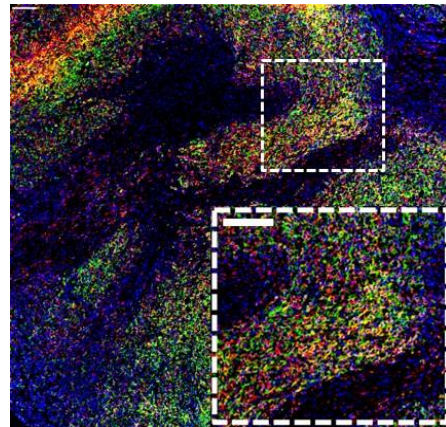
References

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 of diffuse large B cell lymphoma (FFPE) stained with 166Er-anti-CD74 (LN2) at a dilution of 1:50 (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.

For technical support visit techsupport.fluidigm.com. | For general support visit fluidigm.com/support.

For Research Use Only. Not for use in diagnostic procedures.

This product contains antibodies manufactured by and sold under license from BioLegend® and licensees thereof.

Information in this publication is subject to change without notice. **Limited Use Label License:** The purchase of this Fluidigm Instrument and/or Consumable product conveys to the purchaser the limited, nontransferable right to use with only Fluidigm Consumables and/or Instruments respectively except as approved in writing by Fluidigm. **Patent and license information:** fluidigm.com/legal/notices. **Trademarks:** Fluidigm, the Fluidigm logo, Hyperion, Imaging Mass Cytometry, and IMC are trademarks and/or registered trademarks of Fluidigm Corporation in the United States and/or other countries. All other trademarks are the sole property of their respective owners. © 2020 Fluidigm Corporation. All rights reserved. 24-Apr-2020