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

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**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**


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**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.

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