

# Anti-Human CD74-166Er

Catalog: 3166018B

Package Size: 100 tests

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

Reactivity: Rhesus,Olive Baboon,Human

Clone: LN2

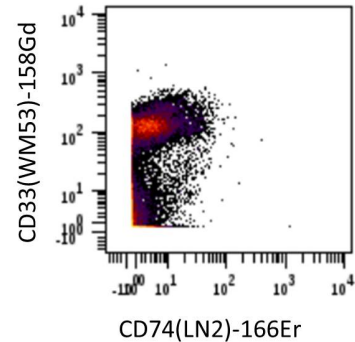
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended Usage:** The suggested use is 1 µl for up to 3 X 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 166Er-anti-CD74(LN2) and 158Gd-anti-CD33(WM53). Total viable cells are displayed in the analysis.

## 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 four isoforms of 33 kD, 35 kD, 41 kD, and 43 kD, which are splice variants. CD74 is weakly expressed on B cells, monocytes and macrophages. Reports have also shows 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 the modulation of B cell differentiation.

## References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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