

Anti-Human CD98-159Tb

Catalog: 3159022B

Package size: 100 tests

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

Clone: UM7F8

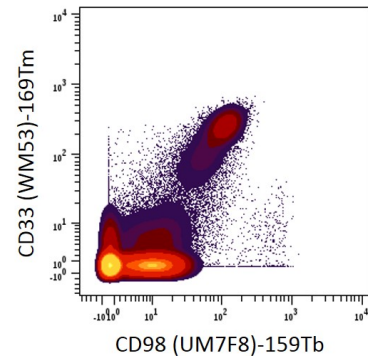
Isotype: Mouse IgG1

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 μ L for up to 3×10^6 live cells in 100 μ L. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 169Tm-anti-CD33 (WM53) and 159Tb-anti-CD98 (UM7F8). Viable CD45+ cells are displayed in the analysis.

Description

The UM7F8 monoclonal antibody specifically binds to CD98, a 125 kDa disulfide-linked heterodimer protein, which is also referred to as 4F2 and FRP-1. CD98 is composed of a 45 kDa light chain and a 80 kDa heavy chain. CD98 is expressed broadly on peripheral blood lymphocytes and monocytes and weakly on granulocytes. CD98 expression has also been reported for non-hematopoietic cells. There is substantial evidence that CD98 acts as a potential amino acid transporter (neutral and dibasic amino acids) and that it is involved in lymphocyte activation and integrin signaling.

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 (2009): 6,813–22.

Ornatsky, O.I. et al. "Highly multiparametric analysis by mass cytometry." *Journal of Immunological Methods* 361 (2010): 1–20.

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