

Anti-Human CD7-166Er

Catalog: 3166027B

Package size: 100 tests

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

Clone: M-T701

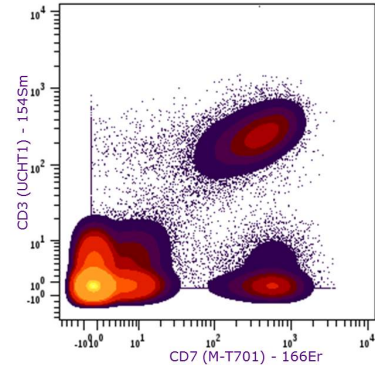
Isotype: Mouse IgG1

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 µL for up to 3 × 10⁶ 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 154Sm-anti-CD3 (UCHT1) and 166Er-anti-CD7 (M-T701). Total viable cells are displayed in the analysis.

Description

CD7, also known as gp40, is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily. CD7 is found on T cells, NK cells, thymocytes, hematopoietic progenitors, and monocytes (weakly). CD7 is also expressed on acute lymphocytic leukemia (ALL) and some acute myeloid leukemia (AML) cells. It plays a role in T cell interactions and also in T cell/B cell interaction during early lymphoid development. CD7 co-stimulation can induce cytokine secretion and modulate cellular adhesion.

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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