

Anti-Human CD99-170Er

Catalog: 3170012B

Package Size: 100 tests

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

Reactivity: Human,

Clone: HCD99

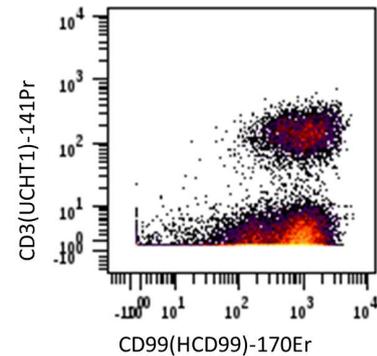
Isotype: Mouse IgG2a

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 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 170Er-anti-CD99(HCD99) and 141Pr-anti-CD3(UCHT1). Total viable cells are displayed in the analysis.

Description

CD99, also known as CD99 antigen, E2 antigen, MIC2, and T-cell surface glycoprotein E2, is a type I, single chain transmembrane protein with a molecule weight of 32 kD. CD99 has a diverse expression pattern on leukocytes. It is expressed on thymocytes, T cells, T cell leukemias and lymphomas and is absent on fetal B cells, some B cell lines, eosinophils and granulocytes. CD99 is differentially expressed during T- and B-lymphoid and granulocytic development, with higher expression during early hematopoietic stages. Mature granulocytes have limited expression of CD99. CD99 has been reported to be involved in T-cell and hematopoietic cell adhesion pathways. CD99 has also been implicated in caspase-independent death pathway in T cells.

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.

For technical support visit fluidigm.com/support

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