

Anti-Human CD97-171Yb

Catalog: 3171015B

Package Size: 100 tests

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

Reactivity: Human,

Clone: VIM3b

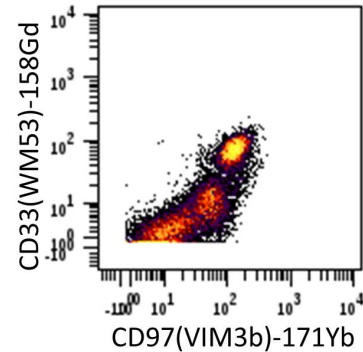
Isotype: IgG1

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 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 171Yb-anti-CD97(VIM3b) and 158Gd-anti-CD33(WM53). Total viable cells are displayed in the analysis.

Description

The monoclonal antibody VIM3b specifically recognizes CD97, a seven-span trio of transmembrane proteins with molecular weights of 74 kD, 80 kD, and 86 kD. CD97 is strongly expressed in the blood on phytohemagglutinin (PHA)-activated T cells and B cells, monocytes, macrophages and granulocytes and weakly expressed on most resting lymphocytes. CD97 expression is also seen in several cell lines including HL-60, THP-1 and K562 cells. CD97 has several ligands and has been reported to bind to CD55 (decay-accelerating factor), chondroitin sulfate, integrin α5β1, and α3β1.

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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