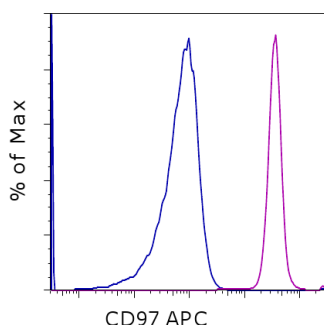


Anti-Human CD97 APC

Catalog Number: 17-6979

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control APC (cat. 17-4714) (blue histogram) or Anti-Human CD97 APC (purple histogram). Cells in the granulocyte gate were used for analysis.

Product Information

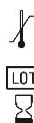
Contents: Anti-Human CD97 APC
Catalog Number: 17-6979
Clone: VIM3b
Concentration: 5 μ L (1 μ g)/test
Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial



Description

This VIM3b monoclonal antibody reacts with human CD97, a member of the epidermal growth factor (EGF)-TM7 family of cell surface receptors. Present on a variety of hematopoietic cells, CD97 is most highly expressed on granulocytes and monocytes. CD97 can also be detected on lymphocytes, with T and NK cells expressing higher levels than B cells. Moreover, CD97 expression on T lymphocytes can be induced by stimulation of CD3 and CD28. Studies have demonstrated that CD97 is involved in granulocyte trafficking and T cell activation. CD55, also known as Decay-accelerating factor (DAF), is the ligand of CD97.

Due to alternative splicing, CD97 exists as three isoforms with molecular weights of 74, 80, and 86 kDa. The VIM3b monoclonal antibody recognizes each form.

Applications Reported

This VIM3b antibody has been reported for use in flow cytometric analysis.

Applications Tested

This VIM3b antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (1 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Kop EN, Matmati M, Pouwels W, Leclercq G, Tak PP, Hamann J. Differential expression of CD97 on human lymphocyte subsets and limited effect of CD97 antibodies on allogeneic T-cell stimulation. *Immunol Lett.* 2009 Apr 27;123(2):160-8.

Capasso M, Durrant LG, Stacey M, Gordon S, Ramage J, Spendlove I. Costimulation via CD55 on human CD4+ T cells mediated by CD97. *J Immunol.* 2006 Jul 15;177(2):1070-7.

Eichler W. CD97 isoform expression in leukocytes. *J Leukoc Biol.* 2000 Oct;68(4):561-7.

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Related Products

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.8.1)