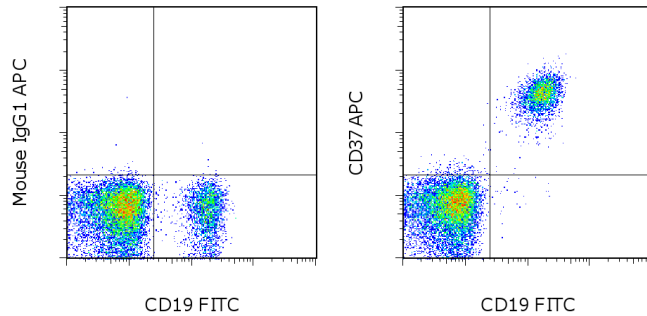


## Anti-Human CD37 APC

**Catalog Number:** 17-0379

**Also known as:** gp40-52

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



Staining of normal human peripheral blood cells with Anti-Human CD19 FITC (cat. 11-0199) and Mouse IgG1 K Isotype Control APC (cat. 17-4714) (left) or Anti-Human CD37 APC (right). Cells in the lymphocyte gate were used for analysis.

### Product Information



**Contents:** Anti-Human CD37 APC

**Catalog Number:** 17-0379

**Clone:** MB-1

**Concentration:** 5  $\mu$ L (0.06  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa



**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

**Contains sodium azide**

### Description

This MB-1 monoclonal antibody recognizes human CD37. This tetraspanin is expressed on mature B cells, but not on pro-B or plasma cells. CD37 is also weakly expressed on T cells, monocytes, neutrophils, dendritic cells, and macrophages. This cell surface glycoprotein is not detected on NK cells, platelets, or erythrocytes. CD37 is highly expressed on all forms of B cell non-Hodgkin lymphoma, chronic lymphocyte leukemia, and other leukemias. CD37 reportedly associates with MHC class II, CD19, CD21, and other members of the tetraspanin family. CD37 has been implicated in signal transduction, B cell activation, and T cell proliferation. CD37 has been used as a therapeutic target for treating B cell malignancies.

### Applications Reported

This MB-1 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This MB-1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L (0.06  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

van Spriël AB, Puls KL, Sofi M, Pouniotis D, Hochrein H, Orinska Z, Knobloch KP, Plebanski M, Wright MD. A regulatory role for CD37 in T cell proliferation. *J Immunol.* 2004 Mar 1;172(5):2953-61.

Knobloch KP, Wright MD, Ochsenbein AF, Liesenfeld O, Löhler J, Zinkernagel RM, Horak I, Orinska Z. Targeted inactivation of the tetraspanin CD37 impairs T-cell-dependent B-cell response under suboptimal costimulatory conditions. *Mol Cell Biol.* 2000 Aug;20(15):5363-9.

Angelisová P, Hilgert I, Horejsí V. Association of four antigens of the tetraspanin family (CD37, CD53, TAPA-1, and R2/C33) with MHC class II glycoproteins. *Immunogenetics.* 1994;39(4):249-56.

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Schwartz-Albiez R, Dörken B, Hofmann W, Moldenhauer G. The B cell-associated CD37 antigen (gp40-52). Structure and subcellular expression of an extensively glycosylated glycoprotein. J Immunol. 1988 Feb 1;140(3):905-14.

Link MP, Bindl J, Meeker TC, Carswell C, Doss CA, Warnke RA, Levy R. A unique antigen on mature B cells defined by a monoclonal antibody. J Immunol. 1986 Nov 1;137(9):3013-8. (**MB-1**, FC, IHC, WB)

### Related Products

00-4222 Flow Cytometry Staining Buffer

11-0199 Anti-Human CD19 FITC (HIB19)

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

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