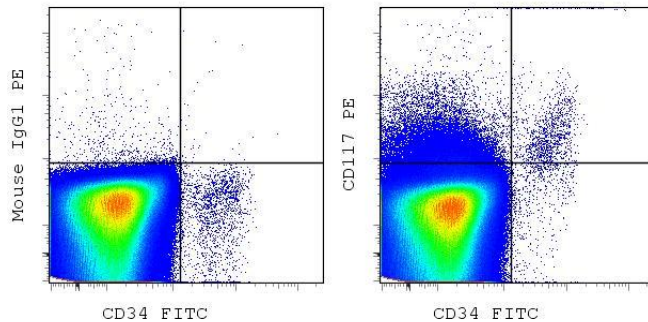


Anti-Human CD117 (c-Kit) PE

Catalog Number: 12-1178

Also known as: SCFR, Steel Factor Receptor

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



Staining of normal human peripheral blood cells with Anti-Human CD34 FITC (cat. 11-0349) and Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-Human CD117 (c-Kit) PE (right). CD45 dim cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Human CD117 (c-Kit) PE

Catalog Number: 12-1178

Clone: 104D2

Concentration: 5 μ L (0.25 μ 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

Description

The 104D2 monoclonal antibody reacts with human CD117, also known as c-Kit, Steel factor receptor and stem cell factor receptor. A member of the tyrosine kinase receptor family, this 145 kDa molecule is expressed by hematopoietic progenitor cell subsets and mast cells. The interaction of c-Kit and Steel factor promotes proliferation and differentiation of hematopoietic progenitor cells and mast cell differentiation. CD117 is also expressed by melanocytes and plays a role in signaling and activation of these cells.

Applications Reported

This 104D2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 104D2 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 (0.25 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

Blair A, Sutherland HJ. Primitive acute myeloid leukemia cells with long-term proliferative ability in vitro and in vivo lack surface expression of c-kit (CD117). *Exp Hematol.* 2000 Jun;28(6):660-71.

Schlossman, S., L. Bloumsell, et al. eds. *Leucocyte Typing V: White Cell Differentiation Antigens.* Oxford University Press. New York 1995. (104D2, FC)

Related Products

11-0349 Anti-Human CD34 FITC (4H11)

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

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