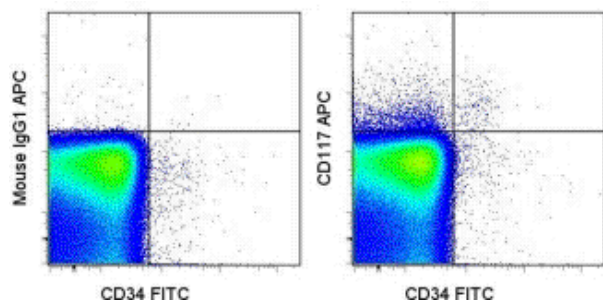


## Anti-Human CD117 (c-Kit) APC

**Catalog Number:** 17-1178

**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 APC (cat. 17-4714) (left) or Anti-Human CD117 (c-Kit) APC (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD117 (c-Kit) APC

**REF** **Catalog Number:** 17-1178

**Clone:** 104D2

**Concentration:** 5 uL (0.25 ug)/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.

**LOT** **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 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> 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. 1995. *Leucocyte Typing V: White Cell Differentiation Antigens.* Oxford University Press. New York.

### Related Products

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

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.1)

47-0459 Anti-Human CD45 APC-eFluor<sup>®</sup> 780 (HI30)

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