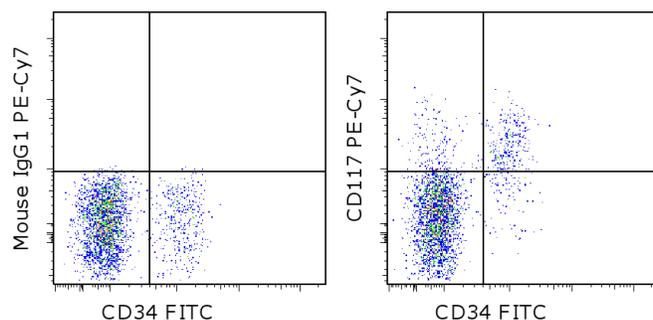


Anti-Human CD117 (c-Kit) PE-Cyanine7

Catalog Number: 25-1178

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 the Human Hematopoietic Lineage APC Cocktail (cat. 22-7776), Anti-Human CD34 FITC (cat. 11-0349) and Mouse IgG1 K Isotype Control PE-Cyanine7 (cat. 25-4714) (left) or Anti-Human CD117 (c-kit) PE-Cyanine7 (right). Lineage negative/low cells were used for analysis.

Product Information

Contents: Anti-Human CD117 (c-Kit) PE-Cyanine7

REF **Catalog Number:** 25-1178

Clone: 104D2

Concentration: 5 uL (0.125 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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

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 (0.125 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 10⁵ to 10⁸ cells/test.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

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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)

22-7776 Human Hematopoietic Lineage APC Cocktail

25-4714 Mouse IgG1 K Isotype Control PE-Cyanine7 (P3.6.2.8.1)

Legal

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