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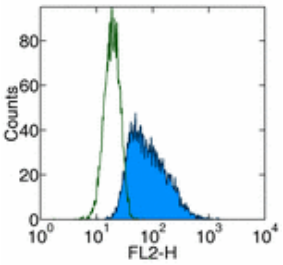
Anti-Human CD117 (c-Kit) PE

Catalog Number: 12-1179
Also Known As:cKit, Mast/Stem Cell Growth Factor Receptor
RUO: For Research Use Only



TF-1 cell line were stained with staining buffer (autofluorescence, open histogram) or Anti-Human CD117 (c-Kit) PE (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD117 (c-Kit) PE
REF Catalog Number: 12-1179
Clone: YB5.B8
Concentration: 5 µl (0.25 µg)/test
Host/Isotype: Mouse IgG1, κ
HLDA Workshop: V C009

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
Caution, contains Azide

Description

The YB5.B8 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.

When interested in staining HSCs from peripheral blood, we recommend the use of clone 104D2. Please refer to cat. 17-1178.

Applications Reported

YB5.B8 has been reported for use in flow cytometric analysis.

Applications Tested

The YB5.B8 antibody has been tested by flow cytometric analysis of the TF-1 cell line, a human erythroleukemia cell line. This can be used at 5 µl (0.25 µg)/per test. A test is defined as the amount (µg)/test 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 10^5 to 10^8 cells/test.

References

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Okayama Y, Hunt TC, Kassel O, Ashman LK, Church MK. Assessment of the anti-c-kit monoclonal antibody YB5.B8 in affinity magnetic enrichment of human lung mast cells.
J Immunol Methods 1994 Mar 10;169(2):153-61
Ashman LK, Buhring HJ, Aylett GW, Broudy VC, Muller C. Epitope mapping and functional studies with three monoclonal antibodies to the c-kit receptor tyrosine kinase, YB5.B8, 17F11, and SR-1. J Cell Physiol 1994 Mar;158(3):545-54

Related Products

12-4714 Mouse IgG1 K Isotype Control PE

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