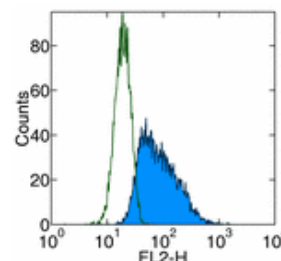


Product Information

Contents: Biotin anti-human CD117 (c-Kit, cKit)
Catalog Number: 13-1179
Sizes: 25 ug, 100 ug
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
DO NOT FREEZE.
Clone: YB5.B8
Isotype: Mouse IgG1, κ
HLDA No.: V C009



Surface staining of TF-1 cells with anti-human CD117 (YB5.B8) PE. Autofluorescence is indicated by open histogram. Total viable cells were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-1179	PE anti-human CD117 (c-Kit, cKit)	488	575	FC
13-1179	Biotin anti-human CD117 (c-Kit, cKit)	N/A	N/A	FC
14-1179	Affinity Purified anti-human CD117 (c-Kit, cKit)	N/A	N/A	FC IH/F IP

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.

Usage

For research use only, not for diagnostic or therapeutic use. 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 less than or equal to 1 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 12-1179 PE anti-human CD117 (c-Kit, cKit) (clone YB5.B8)
Cat. 14-1179 Affinity Purified anti-human CD117 (c-Kit, cKit) (clone YB5.B8)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 13-4714 Biotin Mouse IgG1, K Isotype Control

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.

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