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Technical Data Sheet

Anti-Human CD117 (c-Kit) PE

Catalog Number :19211-60

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

Product Information

Clone: YB5.B8

Format/Conjugate: PE

Concentration: 5 uL (0.25 ug)/test

Reactivity: Human

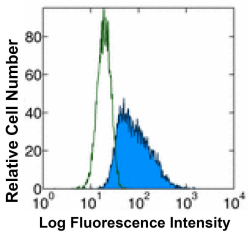
Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5



Viable TF-1 cells were stained with PE YB5.B8 (filled histogram) and staining buffer for autofluorescence (open histogram).

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The YB5.B8 monoclonal antibody specifically binds with human CD117 (c-kit), the 145 kDA receptor for stem cell factor (SCF) or steel factor. This tyrosine kinase protein is expressed mainly on hematopoietic progenitor, mast cells, acute myeloid leukemia cells (AML). CD117 activation promotes proliferation and cell differentiation on these cell subtypes. A lack or defect of SCF can lead to a decrease in number of hematopoietic progenitor cells and severe anemia.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1.Schlossman, S. F. (1995).;Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.

2. Yarden, Y., Kuang, W. J., Yang-Feng, T., Coussens, L., Munemitsu, S., Dull, T. J., ... Ullrich, A. (1987). Human proto-oncogene c-kit: a new cell surface receptor tyrosine kinase for an unidentified ligand.;The EMBO Journal,;6(11), 3341.

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3. Lerner, N. B., Nocka, K. H., Cole, S. R., Qiu, F. H., Strife, A., Ashman, L. K., Besmer, P. (1991). Monoclonal antibody YB5. B8 identifies the human c-kit protein product.;Blood,;77(9), 1876-1883.