biogems
Enabling Science through Innovation

Technical Data Sheet

Anti-Mouse CD135 (Flt3) PE

Catalog Number :17412-60

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

Product Information

Clone: A2F10

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Rat IgG2a, 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 A2F10 monoclonal antibody specifically reacts with mouse CD135, a tyrosine kinase class III receptor. CD135, also known as Flt3, Ly-72, and Flk-2, is the receptor for the FLT3 ligand (FLT3L) cytokine and is expressed on many hematopoietic progenitor cells. Signaling through CD135 plays a role in cell survival, proliferation, and differentiation. The A2F10 antibody is reported to inhibit the binding of FLT3L to CD135.

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. For flow cytometric staining, the suggested use of this reagent is ≤1 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Hannum, C., Culpepper, J., Campbell, D., McClanahan, T., Zurawski, S., Kastelein, R., ... Lee, F. (1994). Ligand for FLT3/FLK2 receptor tyrosine kinase regulates growth of haematopoietic stem cells and is encoded by variant RNAs.

2. Ogawa, M., Sugawara, S., Kunisada, T., Sudo, T., Hayashi, S. I., Nishikawa, S., Kodama, H. (1998). Flt3/Flk-2 and c-Kit are not essential for the proliferation of B lymphoid progenitor cells in the bone marrow of the adult mouse.;Experimental hematology,;26(6), 478-488.

3. Matthews, W., Jordan, C. T., Wiegand, G. W., Pardoll, D., Lemischka, I. R. (1991). A receptor tyrosine kinase specific to hematopoietic stem and progenitor cell-enriched populations.;Cell,;65(7), 1143-1152.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316