

Anti-Mouse CD135 (Flt3) Purified

Catalog Number :17412-20

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

Product Information

Clone: A2F10

Format/Conjugate: Purified

Concentration: 0.5 mg/mL

Reactivity: Mouse

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

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.

Applications: FC, IP

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. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. 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.