Enabling Science through Innovation

Technical Data Sheet

Anti-Human CD338 (ABCG2) PE

Catalog Number :40411-60

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

Product Information

Clone: 5D3

Format/Conjugate: PE

Concentration: 5 uL (0.25ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Mouse IgG2b, 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 5D3 monoclonal antibody binds to CD338 (ABCG2), a multi-drug resistance (MDR) protein that is highly expressed on primitive side population stem cells, a subset of cells that express low or undetectable levels of CD34. CD338 is involved in the transport of molecules across extra- and intra-cellular membranes.

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.Özvegy-Laczka, C., Laczkó, R., Hegedűs, C., Litman, T., Várady, G., Goda, K., ... Sarkadi, B. (2008). Interaction with the 5D3 monoclonal antibody is regulated by intramolecular rearrangements but not by covalent dimer formation of the human ABCG2 multidrug transporter.;Journal of Biological Chemistry,283(38), 26059-26070.

2. Zhou, S., Schuetz, J. D., Bunting, K. D., Colapietro, A. M., Sampath, J., Morris, J. J., ... Sorrentino, B. P. (2001). The ABC transporter Bcrp1/ABCG2 is expressed in a wide variety of stem cells and is a molecular determinant of the side-population phenotype.;Nature medicine,;7(9), 1028-1034.

3. Bunting, K. D. (2002). ABC transporters as phenotypic markers and functional regulators of stem cells.;Stem cells,;20(1), 11-20.