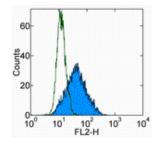


Anti-Human CD338 (ABCG2) PE

Catalog Number: 12-8888 Also Known As:Bcrp1, MXR RUO: For Research Use Only. Not for use in diagnostic procedures.



Product Information

Contents: Anti-Human CD338 (ABCG2) PE REF Catalog Number: 12-8888 Clone: 5D3

Concentration: ug size: 0.2 mg/mL; test size: 5 uL (0.25 ug)/test Host/Isotype: Mouse IgG2b, kappa Staining of human CD338-transfected cells with Mouse IgG2b K Isotype Control PE (cat. 12-4732) (open histogram) or Anti-Human CD338 (ABCG2) PE (filled histogram). Total viable cells were used for analysis.

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

LOT Batch Code: Refer to Vial

- Use By: Refer to Vial
- \Lambda Contains sodium azide

Description

The 5D3 monoclonal antibody reacts with the extracellular portion of the human ABCG2 protein, also known as Bcrp1 and MXR. The ABCG2 gene, a member of the multi-drug resistance (MDR) family, is highly expressed on primitive 'side-population' (SP) stem cells, which are defined by the efflux of fluorescent dyes such as Rhodamine 123 and Hoechest 33342. In the bone marrow, about 0.05% of cells display the low fluorescence and are highly enriched for repopulating cells. The SP cells, which express low or undetectable levels of CD34, have been identified in multiple species. In addition, expression of ABCG2 appears to be highly conserved.

Applications Reported

The 5D3 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 5D3 antibody is tested by flow cytometric analysis of ABCG2 transfectant cells and peripheral blood. It is offered in 2 formats:

- μ g size: has been tested by flow cytometric analysis of ABCG2 transfectant cells and peripheral blood. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

- test size: has been pre-titrated and tested by flow cytometric analysis of ABCG2 transfectant cells and peripheral blood. This can be used at 5 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

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Kim M, Turnquist H, Jackson J, Sgagias M, Yan Y, Gong M, Dean M, Sharp JG, Cowan K. The multidrug resistance transporter ABCG2 (breast cancer resistance protein 1) effluxes Hoechst 33342 and is overexpressed in hematopoietic stem cells. Clin Cancer Res. 2002 Jan;8(1):22-8.

Scharenberg CW, Harkey MA, Torok-Storb B.. The ABCG2 transporter is an efficient Hoechst 33342 efflux pump and is preferentially expressed by immature human hemtopoietic progenitors. Blood. 2002 Jan 15;99(2):507-12.

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Goodell MA, Rosenzweig M, Kim H, Marks DF, DeMaria M, Paradis G, Grupp SA, Sieff CA, Mulligan RC, Johnson RP. Dye efflux studies suggest that hematopoietic stem cells expressing low or undetectable levels of CD34 antigen exist in multiple species. Nat Med. 1997 Dec;3(12):1337-45.

Related Products

12-4732 Mouse IgG2b K Isotype Control PE

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