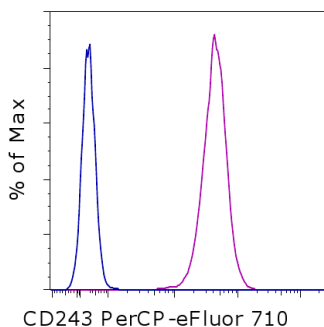


Anti-Human CD243 (ABCB1) PerCP-eFluor® 710

Catalog Number: 46-2439

Also known as: MDR1, Multidrug resistance protein 1

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



Staining of 8226 DOX40 cell line with Mouse IgG2a K Isotype Control PerCP-eFluor® 710 (cat. 46-4724) (blue histogram) or Anti-Human CD243 (ABCB1) PerCP-eFluor® 710 (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD243 (ABCB1)
PerCP-eFluor® 710



Catalog Number: 46-2439

Clone: UIC2

Concentration: 5 µL (0.125 µg)/test

Host/Isotype: Mouse IgG2a



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.



Batch Code: Refer to vial



Use By: Refer to vial

Description

This monoclonal antibody reacts with human Multidrug Resistant (MDR)-1, which is also known as P-glycoprotein (Pgp) and CD243. A 170-kDa transmembrane protein, MDR-1 is an ATP-dependent efflux pump for lipophilic compounds, including anti-cancer drugs. Expression of MDR-1 has been shown to correlate with multidrug resistance. In fact, tumor resistance to chemotherapy has been linked to MDR-1 expression in many cancers. MDR-1 is expressed in a variety of tissues, including the brain, kidney, liver, pancreas, and testes. Within the immune system, this molecule can be found on normal T, B, and natural killer cells, but not on monocytes.

This antibody has been reported to inhibit MDR1-mediated efflux.

Applications Reported

This UIC2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This UIC2 antibody has been pre-titrated and tested by flow cytometric analysis on multidrug resistant cell lines. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click [here](#) or contact eBioscience Technical Support for more information on eFluor™ Organic Dyes including PerCP-eFluor® 710.

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References

Chaudhary PM, Mechetner EB, Roninson IB. Expression and activity of the multidrug resistance P-glycoprotein in human peripheral blood lymphocytes. *Blood*. 1992 Dec 1;80(11):2735-9. (UIC2, FC)

Mechetner EB, Roninson IB. Efficient inhibition of P-glycoprotein-mediated multidrug resistance with a monoclonal antibody. *Proc Natl Acad Sci U S A*. 1992 Jul 1;89(13):5824-8. (UIC2, FA)

Related Products

46-4724 Mouse IgG2a K Isotype Control PerCP-eFluor® 710