

CD243 (ABCB1) Monoclonal Antibody (UIC2), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	UIC2
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10853825

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	-

Product Specific Information

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.

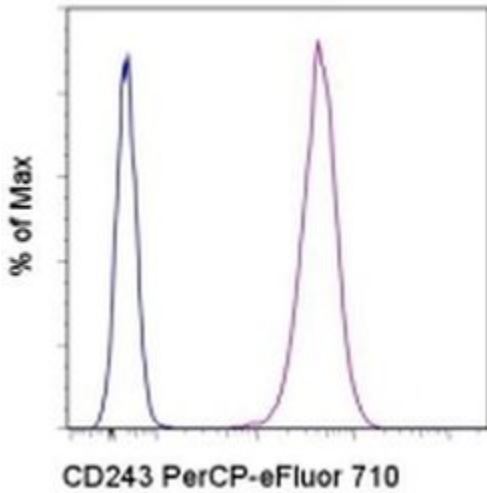
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic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

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD243 (ABCB1) Monoclonal Antibody (UIC2), PerCP-eFluor 710, eBioscience™



CD243 (ABCB1) Antibody (46-2439-42) in Flow

Staining of 8226 DOX40 cell line with Mouse IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4724-82) (blue histogram) or Anti-Human CD243 (ABCB1) PerCP-eFluor® 710 (purple histogram). Total viable cells were used for analysis.

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