

CD243 (ABCB1) Monoclonal Antibody (UIC2), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Dog, Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	UIC2
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10736477

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	3 Publications

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.

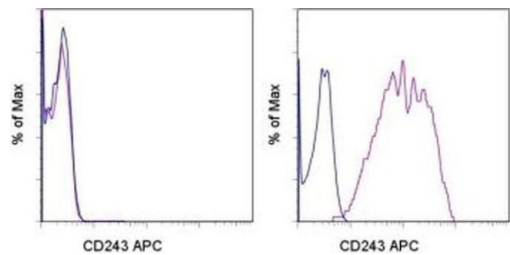
Applications Reported: This UIC2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This UIC2 antibody has been pre-titrated and tested This UIC2 antibody has been pre-titrated and tested by flow cytometric analysis on the multidrug resistant cell line 8226 DOX40 and its parent line 8226/S. This can be used at 5 µL (0.25 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.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD243 (ABCB1) Monoclonal Antibody (UIC2), APC, eBioscience™



CD243 (ABCB1) Antibody (17-2439-42) in Flow
Staining of the 8226/S (left) and 8226 DOX40 (right) cell lines with Mouse IgG2a K Isotype Control APC (Product # 17-4724-81) (blue histogram) or Anti-Human CD243 (ABCB1) APC (purple histogram). Total viable cells were used for analysis.

3 References

Flow Cytometry (3)

<p>iScience</p> <p>Targeting histone methylation to reprogram the transcriptional state that drives survival of drug-tolerant myeloid leukemia persists.</p> <p>"17-2439-42 was used in Flow cytometry/Cell sorting to reveal plasticity of anthracycline resistance in AML cells and highlight the potential of transcriptional reprogramming by epigenetic-based therapeutics to target chemotherapy-resistant AML cells."</p> <p>Authors: van Gils N,Verhagen HJMP,Broux M,Martíáñez T,Denkers F,Vermue E,Rutten A,Csikós T,Demeyer S,Çil M,Al M,Cools J,Janssen JJWM,Ossenkoppele GJ,Menezes RX,Smit L</p>	<p>Year 2022</p> <p>Species Human</p>
<p>F1000Research</p> <p>A double blinded, placebo-controlled pilot study to examine reduction of CD34 +/CD117 +/CD133 + lymphoma progenitor cells and duration of remission induced by neoadjuvant valspodar in dogs with large B-cell lymphoma.</p> <p>"17-2439 was used in Flow cytometry/Cell sorting to examine whether ABCB1 would reduce lymphoma progenitor cells, and extend the length of remission in dogs with therapy naive large B-cell lymphoma."</p> <p>Authors: Ito D,Childress M,Mason N,Winter A,O'Brien T,Henson M,Borgatti A,Lewellen M,Krick E,Stewart J,Lahrman S, Rajwa B,Scott MC,Seelitz D,Koopmeiners J,Ruetz S,Modiano J</p>	<p>Year 2021</p> <p>Species Dog</p>

[View more Flow references on thermofisher.com](#)

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