

# CD243 (ABCB1) Monoclonal Antibody (UIC2), PE, 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), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	UIC2
Conjugate	PE
Excitation/Emission Max	565/576 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_1603172

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	5 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.

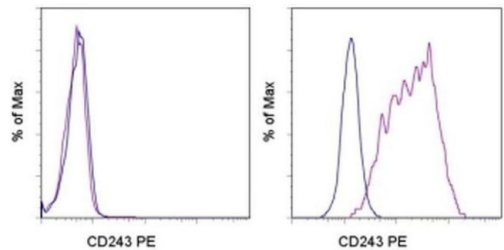
**Applications Reported:** This UIC2 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This UIC2 antibody has been pre-titrated and tested by flow cytometric analysis on multidrug resistant cell lines. This can be used at 5 µL (0.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



**CD243 (ABCB1) Antibody (12-2439-42) in Flow**  
Staining of the 8226/S (left) and 8226 DOX40 (right) cell lines with Mouse IgG2a K Isotype Control PE (Product # 12-4724-81) (blue histogram) or Anti-Human CD243 (ABCB1) PE (purple histogram). Total viable cells were used for analysis.

5 References

Flow Cytometry (5)

<p>Stem cells international</p> <p><b>Optimized Stem Cell Detection Using the DyeCycle-Trigged Side Population Phenotype.</b></p> <p>"Published figure using CD243 (ABCB1) monoclonal antibody (Product # 12-2439-42) in Flow Cytometry"</p> <p>Authors: Boesch M,Wolf D,Sopper S</p>	<p>Year</p> <p>2016</p> <p>Species</p> <p>Human</p>
<p>Veterinary and comparative oncology</p> <p><b>Canine osteosarcoma cells exhibit resistance to aurora kinase inhibitors.</b></p> <p>"12-2439 was used in Flow cytometry/Cell sorting to investigate the effect of Aurora kinase inhibitors AZD1152 and VX680 on canine osteosarcoma cells."</p> <p>Authors: Cannon CM,Pozniak J,Scott MC,Ito D,Gorden BH,Graef AJ,Modiano JF</p>	<p>Year</p> <p>2015</p> <p>Species</p> <p>Dog</p>

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

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