

## CD243 (ABCB1) Mouse Anti-Human mAb (clone UIC2), PE Conjugate

Store at 2°C to 8°C

Pub. No. MAN0009486 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A18376	PE	25 tests (5 µL/test; 0.1 µg/µL)	496 nm	578 nm

<b>Clone</b>	UIC2
<b>Host/Class</b>	Mouse IgG2a
<b>Description</b>	The CD243 (ABCB1) Mouse Anti-Human Monoclonal Antibody (mAb) recognizes human CD243, a 170-kDa transmembrane protein which is an ATP-dependent efflux pump for lipophilic compounds. CD243 expression correlates with multidrug resistance. CD243 is expressed in the liver, kidney, brain, pancreas, testes, and in normal T, B, and natural killer cells. The antibody inhibits MDR1-mediated efflux.
<b>Alternate Names</b>	P-glycoprotein-1, Multidrug Resistant (MDR1)
<b>Applications*</b>	FC (multidrug resistant cell lines) <sup>1</sup> , FUNC <sup>2</sup>
<b>Storage Buffer</b>	The reagent is provided in aqueous buffer with 0.09% sodium azide, and may contain carrier protein/stabilizer. <b>CAUTION!</b> Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at <a href="http://www.lifetechnologies.com/support">www.lifetechnologies.com/support</a> .
<b>Storage</b>	Store reagents in the dark at 2° to 8°C. Do not freeze. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Avoid prolonged light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.
<b>Stability</b>	When stored as instructed, expires one year from date of receipt unless otherwise indicated on Certificate of Analysis.
<b>Lot Number</b>	See product label.
<b>References</b>	<ol style="list-style-type: none"> <li>Chaudhary PM, Mechetner EB, Roninson IB. Expression and activity of the multidrug resistance P-glycoprotein in human peripheral blood lymphocytes. <i>Blood</i>. 1992 Dec 1;80(11):2735-9.</li> <li>Mechetner EB, Roninson IB. Efficient inhibition of P-glycoprotein-mediated multidrug resistance with a monoclonal antibody. <i>Proc Natl Acad Sci U S A</i>. 1992 Jul 1;89(13):5824-8.</li> </ol>

\* Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.








FC = flow cytometry; FUNC = functional assay; ICC = immunocytochemistry; IHC(F) = immunohistochemistry (frozen sample); IHC(P) = immunohistochemistry (paraffin embedded sample); IP = immunoprecipitation; RIA = radioimmunoassay; WB = western blot

**For Research Use Only. Not for use in diagnostic procedures.**

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

## Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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