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Datasheet for ABIN6240831  
**anti-ABCB1 antibody (APC)**

2 Images

### Overview

Quantity:	100 tests
Target:	ABCB1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ABCB1 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

### Product Details

Immunogen:	NIH 3T3 cells transfected with human CD243 (MDR-1) cDNA
Clone:	UIC2
Isotype:	IgG2a kappa
Specificity:	The mouse monoclonal antibody UIC2 recognizes an extracellular epitope on CD243 (MDR-1), an approximately 170 kDa ABC transporter expressed on hematopoietic stem cells, B, T, and NK cells, or on many multidrug resistant cancer cells. This antibody preferentially recognizes CD243 in the process of transporting substrate.
No Cross-Reactivity:	Mouse, Rat
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

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Target:	ABCB1
Alternative Name:	CD243 ( <a href="#">ABCB1 Products</a> )
Background:	ATP binding cassette subfamily B member 1,CD243, also known as multidrug resistant protein 1 (MDR-1) or P-glycoprotein (Pgp) is an ATP binding cassette (ABC)-containing efflux transporter for xenobiotic lipophilic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. It is expressed in many tissues, including the brain, liver, pancreas, testes, kidney, and blood (B, T, NK cells, but not monocytes).,P-Glycoprotein, CLCS, MDR1, PGY1, ABC20, GP170, ABCB1, ABC transporter
Gene ID:	5243
UniProt:	<a href="#">P08183</a>

## Application Details

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Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

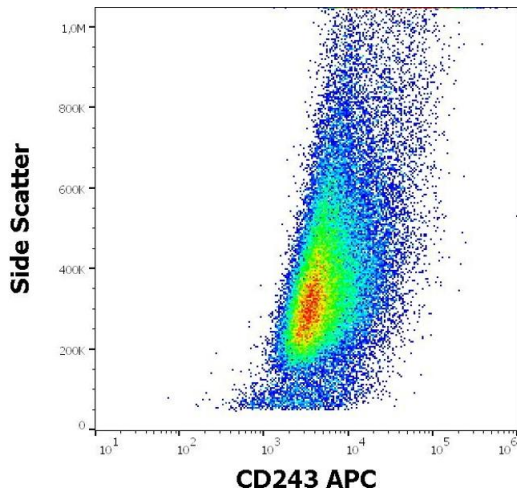
## Handling

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Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage:	4 °C

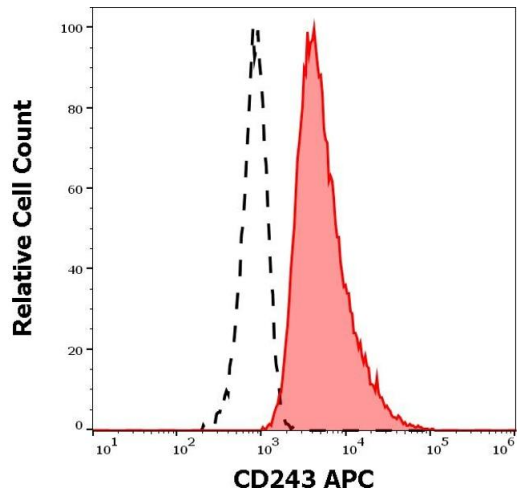
Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Images



Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of HEP-G2 cell suspension stained using anti-human CD243 (UIC2) APC antibody (10 µL reagent per million cells in 100 µL of cell suspension).



Flow Cytometry

**Image 2.** Separation of HEP-G2 cells (red-filled) from human peripheral whole blood cells (black-dashed) in flow cytometry analysis (surface staining) stained using anti-human anti-human CD243 (UIC2) APC antibody (10 µL reagent per million cells in 100 µL of cell suspension).