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30-2614: Anti-Human CD243 APC (Clone : UIC2)

Clonality :	Monoclonal
Clone Name :	UIC2
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	ABCB1
Gene ID :	5243
Alternative Name :	P-Glycoprotein, CLCS, MDR1, PGY1, ABC20, GP170, ABCB1, ABC transporter,ATP binding cassette subfamily B member 1
Isotype :	Mouse IgG2a kappa
Immunogen Information :	NIH 3T3 cells transfected with human CD243 (MDR-1) cDNA

Description

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).
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.

Product Info

Amount :	100 tests
Purification :	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 ÃÂµl reagent / 100 ÃÂµl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

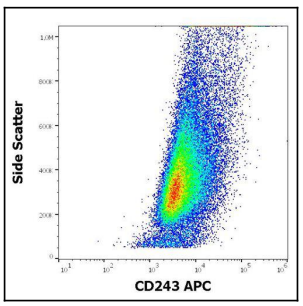


Figure 1 : Flow cytometry surface staining pattern of HEP-G2 cell suspension stained using anti-human CD243 (UIC2) APC antibody (10 µl reagent per milion cells in 100 µl of cell suspension).

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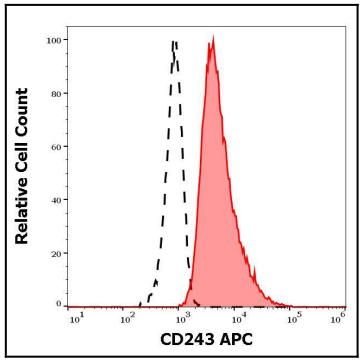


Figure 2 : Separation of HEP-G2 cells (red-filled) from human peripheral whole blood cells (black-dashed) in flow cytometry analysis (surface staining) stained using anti-human anti-human CD243 (UIC2) APC antibody (10 µl reagent per milion cells in 100 µl of cell suspension).

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