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Technical Data Sheet

Anti-Human CD243 (ABCB1) PE

Catalog Number :25511-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: UIC2

Format/Conjugate: PE

Concentration: 5 uL (0.5 ug)/test

Reactivity: Human

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG2a

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The UIC2 monoclonal antibody specifically reacts with CD243, a 170 kDA transmembrane protein also known as human multidrug resistant-1 (MDR-1) or P-glycoprotein (Pgp). It is an ATP binding cassette (ABC) transport and is expressed on B, T, NK cells to the exclusion of monocytes. CD243 is involved in the process that transports molecules across the cellular membranes and plays a role in multidrug resistance. The UIC2 antibody inhibits CD243 mediated efflux.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1.Mechetner, E. B., Roninson, I. B. (1992). Efficient inhibition of P-glycoprotein-mediated multidrug resistance with a monoclonal antibody.;Proceedings of the National Academy of Sciences,;89(13), 5824-5828.

2. Chaudhary, P. M., Mechetner, E. B., Roninson, I. B. (1992). Expression and activity of the multidrug resistance P-glycoprotein in human peripheral blood lymphocytes [see comments].;Blood,;80(11), 2735-2739.

3. Goda, K., Fenyvesi, F., Bacsó, Z., Nagy, H., Márián, T., Megyeri, A., ... Szabó, G. (2007). Complete inhibition of P-glycoprotein by simultaneous treatment with a distinct class of modulators and the UIC2 monoclonal antibody.;Journal of Pharmacology and Experimental Therapeutics,;320(1), 81-88.

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