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Technical Data Sheet

Anti-Human CD279 (PD-1) APC

Catalog Number :31831-80

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

Product Information

Clone: J105

Format/Conjugate: APC

Concentration: 5 uL (1.0 ug)/test

Reactivity: Human

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

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

Isotype: Mouse IgG1, kappa

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 J105 monoclonal antibody specifically reacts with human Programmed death-1 (PD-1 or CD279), a 50-55 kDA glycoprotein. It is expressed on mainly on activated B, T, and myeloid cells. Within the cytoplasmic region, PD-1 contains an Immunoreceptor tyrosine-based inhibitory motif (ITIM) and seems to regulate peripheral tolerance. The lack or mutation of CD279 is linked to autoimmune disorders.

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.Sun, C., Kay, S., Polliack, A., Avivi, I., Wiestner, A., Perry, C. (2017). Lymphocyte activation gene 3: a novel therapeutic target in chronic lymphocytic leukemia.

2. Kim, E. J., Kwun, J., Gibby, A. C., Hong, J. J., Farris, A. B., Iwakoshi, N. N., ... Knechtle, S. J. (2014). Costimulation Blockade Alters Germinal Center Responses and Prevents Antibody-Mediated Rejection.;American Journal of Transplantation,;14(1), 59-69.

3. Dunham, J., van Driel, N., Eggen, B. J., Paul, C., A't Hart, B., Laman, J. D., Kap, Y. S. Analysis of the cross-talk between Epstein-Barr virus-infected B cells and T cells in the marmoset.;Translational multiple sclerosis research in primates,;3(4), 79.