

Anti-Human CD279 (PD-1) FITC

Catalog Number: 31811-50

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

Product Information

Clone: MIH4

Format/Conjugate: FITC

Concentration: 5 uL (2.0 ug)/test

Reactivity: Human
Laser: Blue (488nm)
Peak Emission: 520nm
Peak Excitation: 494nm

Filter: 530/30

Brightness (1=dim,5=brightest): 3

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 MIH4 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 μ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 μ L.

References

- 1.Zhang, J. Y., Zhang, Z., Wang, X., Fu, J. L., Yao, J., Jiao, Y., ... Wang, F. S. (2007). PD-1 up-regulation is correlated with HIV-specific memory CD8+ T-cell exhaustion in typical progressors but not in long-term nonprogressors.;Blood,109(11), 4671-4678.
- 2. Bennett, F., Luxenberg, D., Ling, V., Wang, I. M., Marquette, K., Lowe, D., ... Carreno, B. M. (2003). Program death-1 engagement upon TCR activation has distinct effects on costimulation and cytokine-driven proliferation: attenuation of ICOS, IL-4, and IL-21, but not CD28, IL-7, and IL-15 responses.;The Journal of Immunology,;170(2), 711-718.
- 3. Thompson, R. H., Dong, H., Lohse, C. M., Leibovich, B. C., Blute, M. L., Cheville, J. C., Kwon, E. D. (2007). PD-1 is expressed by tumor-infiltrating immune cells and is associated with poor outcome for patients with renal cell carcinoma.; Clinical Cancer Research,;13(6), 1757-1761.