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Technical Data Sheet

Anti-Human CD274 (PD-L1, B7-H1) APC

Catalog Number :26811-80

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

Product Information

Clone: MIH1

Format/Conjugate: APC

Concentration: 5 uL (0.5 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 MIH1 monoclonal antibody specifically reacts with human CD274, also known as B7-H1 or PD-L1, a glycoprotein of the B7 family of the immunoglobulin superfamily. CD274 is expressed on the B and T lymphocytes, natural killer cells, and dendritic cells. The receptor for the B7-H1 molecule is PD-1, which contains an Immunoreceptor Tyrosine-based Inhibitory Motif (ITIM), and is expressed on activated B and T cells. The interaction between CD274 and PD-1 seems to downregulate the T and B immune responses. The MIH1 antibody is reported to be a blocking antibody.

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.Marzec, M., Zhang, Q., Goradia, A., Raghunath, P. N., Liu, X., Paessler, M., ... Wasik, M. A. (2008). Oncogenic kinase NPM/ALK induces through STAT3 expression of immunosuppressive protein CD274 (PD-L1, B7-H1).;Proceedings of the National Academy of Sciences,;105(52), 20852-20857.

2. Boes, M., Meyer-Wentrup, F. (2015). TLR3 triggering regulates PD-L1 (CD274) expression in human neuroblastoma cells.;Cancer letters,;361(1), 49-56.

3. Wilcox, R. A., Feldman, A. L., Wada, D. A., Yang, Z. Z., Comfere, N. I., Dong, H., ... Witzig, T. E. (2009). B7-H1 (PD-L1, CD274) suppresses host immunity in T-cell lymphoproliferative disorders.;Blood,;114(10), 2149-2158.

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