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Technical Data Sheet

Anti-Mouse CD274 (PD-L1, B7-H1) PE

Catalog Number :26812-60

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

Product Information

Clone: 10F.9G2

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

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

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Rat IgG2b, 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 10F.9G2 monoclonal antibody specifically reacts with mouse CD274, also known as B7-H1 or PD-L1, a 43 kDa 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.

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. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

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2. Koehn, B. H., Ford, M. L., Ferrer, I. R., Borom, K., Gangappa, S., Kirk, A. D., Larsen, C. P. (2008). PD-1-dependent mechanisms maintain peripheral tolerance of donor-reactive CD8+ T cells to transplanted tissue.;The Journal of Immunology,;181(8), 5313-5322.

3. Maier, H., Isogawa, M., Freeman, G. J., Chisari, F. V. (2007). PD-1: PD-L1 interactions contribute to the functional suppression of virus-specific CD8+ T lymphocytes in the liver.;The Journal of Immunology,;178(5), 2714-2720.

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