biogems
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Technical Data Sheet

Anti-Human CD275 (B7-H2) PE

Catalog Number :27811-60

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

Product Information

Clone: MIH12

Format/Conjugate: PE

Concentration: 5 uL (0.125 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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 MIH12 monoclonal antibody reacts with human CD275, also known as B7-H2, B7h, B7RP-1, and ICOS ligand. CD275 is expressed on macrophages, monocytes, and dendritic cells. It binds to the ICOS (CRP-1 or AILIM) receptor expressed on activated T cells and interacts with the T cell costimulation pathway.

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.Hu, X., Liu, C., An, J., Shen, Y., Hu, Y., Jiang, J., ... Zhang, X. (2016). Development of a Novel Functional Monoclonal Antibody to Human CD275: Characterization and Biological Activity.;Monoclonal antibodies in immunodiagnosis and immunotherapy,;35(1), 18-24.

2. Youngnak-Piboonratanakit, P., Tsushima, F., Otsuki, N., Igarashi, H., Omura, K., Azuma, M. (2006). Expression and regulation of human CD275 on endothelial cells in healthy and inflamed mucosal tissues.;Scandinavian journal of immunology,;63(3), 191-198.

3. Yao, S., Zhu, Y., Zhu, G., Augustine, M., Zheng, L., Goode, D. J., ... Flies, D. (2011). B7-h2 is a costimulatory ligand for CD28 in human.;Immunity,;34(5), 729-740.