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Technical Data Sheet

Anti-Mouse CD275 (B7-H2) PE

Catalog Number :27812-60

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

Product Information

Clone: HK5.3

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Rat IgG2a, 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 HK5.3 monoclonal antibody reacts with mouse CD275, also known as B7-H2, B7h, B7RP-1, and ICOS ligand. CD275 is expressed on b cells, 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. For flow cytometric staining, the suggested use of this reagent is ≤0.125 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Vermaelen, K., Pauwels, R. (2004). Accurate and simple discrimination of mouse pulmonary dendritic cell and macrophage populations by flow cytometry: methodology and new insights.;Cytometry Part A: the journal of the International Society for Analytical Cytology,;61(2), 170-177.

2. Tsushima, F., Tanaka, K., Otsuki, N., Youngnak, P., Iwai, H., Omura, K., Azuma, M. (2006). Predominant expression of B7-H1 and its immunoregulatory roles in oral squamous cell carcinoma.;Oral oncology,;42(3), 268-274.

3. Sokolovska, A., Hem, S. L., HogenEsch, H. (2007). Activation of dendritic cells and induction of CD4+ T cell differentiation by aluminum-containing adjuvants.;Vaccine,;25(23), 4575-4585.