

Anti-Mouse CD86 (B7-2) PE

Catalogue Number : 08922-60

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

Product Information

Clone: PO3.1

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, $\leq 0.09\%$ 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 PO3.1 monoclonal antibody specifically reacts with CD86, also known as B7-2, a surface 80 kDa receptor and member of the B7 family. CD86 is a costimulatory molecule, expressed on B and T cells, dendritic cells, astrocytes, macrophages, Langerhans cells, and at a low level in newly explanted B and T lymphocytes. CD86 expression on B lymphocytes is upregulated by B-Cell Receptor complex, CD40 and certain cytokine receptors. CD80 (B7-1) and CD 86 (B7-2) are receptors for CD28 and CTLA-4, on the surface of T lymphocytes, enhancing the interactions between B and T cells.

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 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Hathcock, K. S., Laszlo, G., Dickler, H. B., Bradshaw, J., Linsley, P., ; Hodes, R. J. (1993). Identification of an alternative CTLA-4 ligand costimulatory for T cell activation.; *Science*.; 262(5135), 905-907.
2. Inaba, K., Witmer-Pack, M., Inaba, M., Hathcock, K. S., Sakuta, H., Azuma, M., ... ; Steinman, R. M. (1994). The tissue distribution of the B7-2 costimulator in mice: abundant expression on dendritic cells in situ and during maturation in vitro.; *The Journal of experimental medicine*.; 180(5), 1849-1860.
3. Hathcock, K. S., Laszlo, G., Pucillo, C., Linsley, P., ; Hodes, R. J. (1994). Comparative analysis of B7-1 and B7-2 costimulatory ligands: expression and function.; *The Journal of experimental medicine*.; 180(2), 631-640.