

Anti-Rat CD28 PE

Catalog Number :10313-60

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

Product Information

Clone: JJ319

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Rat

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

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Mouse IgG1

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 JJ319 monoclonal antibody specifically reacts with rat CD28, a 44 kDa glycoprotein member of the immunoglobulin superfamily. CD28 is expressed on alpha/beta TCR+ T cells, some gamma/delta TCR+ T cells and a subset of NK cells. CD28 is a costimulatory receptor required for T cell activation. Its ligands are CD80 (B7-1) and CD86 (B7-2).

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 ≤ 0.5 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Tacke, M., Clark, G. J., Dallman, M. J., Hünig, T. (1995). Cellular distribution and costimulatory function of rat CD28. Regulated expression during thymocyte maturation and induction of cyclosporin A sensitivity of costimulated T cell responses by phorbol ester.; The Journal of Immunology 154(10), 5121-5127.
2. Tacke, M., Hanke, G., Hanke, T. H. T. (1997). CD28-mediated induction of proliferation in resting T cells in vitro and in vivo without engagement of the T cell receptor: Evidence for functionally distinct forms of CD28. European journal of immunology 27(1), 239-247.
3. Bluestone, J. A. (1995). New perspectives of CD28-B7-mediated T cell costimulation.; Immunity, 2(6), 555-559.