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Technical Data Sheet

Anti-Rat CD25 PE

Catalog Number :07313-60

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

Product Information

Clone: OX39

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, lambda

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 OX39 antibody specifically reacts with rat CD25, the 55 kDa low-affinity Interleukin-2 Receptor α chain (IL-2R α), expressed on early progenitors of T and B lineage, and on B and T cells. Together with CD122 (IL-2 Receptor β) and CD 132 (IL-2 Receptor γc, the common gamma chain), CD25 forms high-affinity receptor complexes for IL-2.

The OX39 antibody is reported to deplete CD25 cells in vivo and block some IL-2 mediated 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 ≤0.125 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Stephens, L. A., Mason, D. (2000). CD25 is a marker for CD4+ thymocytes that prevent autoimmune diabetes in rats, but peripheral T cells with this function are found in both CD25+ and CD25− subpopulations.;The Journal of Immunology,;165(6), 3105-3110.

2. Vujanovic, N. L., Herberman, R. B., Maghazachi, A. A., Hiserodt, J. C. (1988). Lymphokine-activated killer cells in rats. III. A simple method for the purification of large granular lymphocytes and their rapid expansion and conversion into lymphokine-activated killer cells.;The Journal of experimental medicine,;167(1), 15-29.

3. Stephens, L. A., Barclay, A. N., Mason, D. (2004). Phenotypic characterization of regulatory CD4+ CD25+ T cells in rats.;International immunology,;16(2), 365-375.

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