Enabling Science through Innovation

Technical Data Sheet

Anti-Mouse CD71 (Transferrin Receptor) APC

Catalog Number :03812-80

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

Product Information

Clone: R17217

Format/Conjugate: APC

Concentration: 0.2 mg/ml

Reactivity: Mouse

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

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 R17217 antibody specifically reacts with mouse CD71, a type II homodimeric transmembrane protein. CD71 mediates the uptake of transferrin-iron complexes and is highly expressed on the surface of cells of the erythroid lineage. It is known as the transferrin receptor or T9. The expression of CD71 on resting mature lymphocytes is low.

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.Ulbrich, Karsten, et al. "Transferrin-and transferrin-receptor-antibody-modified nanoparticles enable drug delivery across the blood;brain barrier (BBB)."European Journal of Pharmaceutics and Biopharmaceutics;71.2 (2009): 251-256.

2. Lesley, J., Hyman, R., Schulte, R., Trotter, J. (1984). Expression of transferrin receptor on murine hematopoietic progenitors.;Cellular immunology,83(1), 14-25.

3. van Rooy, I., Mastrobattista, E., Storm, G., Hennink, W. E., Schiffelers, R. M. (2011). Comparison of five different targeting ligands to enhance accumulation of liposomes into the brain.;Journal of Controlled Release,;150(1), 30-36.

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