

DiagNano™ CD4 Magnetic Quantum Dots, 655 nm Emission Peak

Cat.No: DNQ-CQ013

DESCRIPTION

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DiagNano™ CD4 Magnetic Quantum Dot Beads, 655 nm Emission Peak is a dual-purpose reagent, which combines quantum dots and superparamagnetic iron oxide particles within the same nanoparticle. Cells labeled with this product targeting specific antigens will be both fluorescent and magnetic. Therefore, after labeling cells of interest, one can look at the feed to determine the percent positive fluorescently via flow cytometry, and then place the labeled cells in a magnetic separator and analyze both the magnetic (for the enrichment) and the nonmagnetic (for the depletion) of targeted cells without the need for further fluorescent labeling. Mouse anti human CD4 antibody, clone RPA-T4 conjugated to this product recognizes human CD4, a 55 kDa cell surface glycoprotein that is primarily expressed on a subpopulation of T lymphocytes, on peripheral blood monocytes and on tissue macrophages.

APPLICATION

Application Notes

Flow Cytometry, Magnetic Separation

PRODUCT INFORMATION

Ligand

CD4 Antibody

Emission Max

655 nm

Usage Statement

Suggested working dilution 15-20 µL/million cells

Reactivity

Human

| | |
|---------------------|--------------------------------------|
| Host/Isotype | Mouse/IgG1 |
| Antibody | 0.08 mg/mL, Monoclonal, Clone: RPAT4 |
| Immunogen | Human CD4 |
| Appearance | Liquid |

STORAGE AND SHIPPING

| | |
|-----------------------|---|
| Storage Buffer | Borate, pH 7.4 with 0.5% BSA, 0.1% sodium azide |
| Storage | 4°C do not freeze |