

CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), APC-eFluor 780, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 Tests |
| Species Reactivity | Human |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC-eFluor 780, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | OKT9 (OKT-9) |
| Conjugate | APC-eFluor® 780 |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.2% BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2784702 |

| Applications | Tested Dilution | Publications |
|-----------------------|----------------------|---------------|
| Flow Cytometry (Flow) | 5 µL (0.125 µg)/test | 1 Publication |

Product Specific Information

Description: The OKT9 monoclonal antibody reacts with human CD71, a 170-180 kDa type II transmembrane protein. CD71, the transferrin receptor, exists as a homodimer on the cell surface and is essential for cellular growth. CD71 is expressed by immature proliferating cells and at low levels on resting mature lymphocytes. Antigen or mitogen stimulation of T and B cells upregulates the expression of CD71.

Applications Reported: This OKT9 (OKT-9) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This OKT9 (OKT-9) antibody has been pre-titrated and tested by flow cytometric analysis of stimulated human peripheral blood mononuclear cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

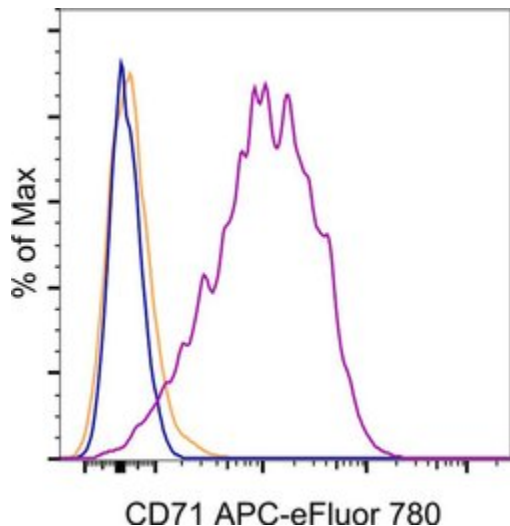
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Product Images For CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), APC-eFluor 780, eBioscience™



CD71 (Transferrin Receptor) Antibody (47-0719-42) in Flow

Normal human peripheral blood cells were unstimulated (orange histogram) or stimulated for 72 hours with CD3 and CD28 Monoclonal Antibodies, Functional Grade (Product # 16-0037-85 and Product # 16-0289-85). Cells were then stained with Mouse IgG1 kappa Isotype Control, APC-eFluor 780 (Product # 47-4714-82) (blue histogram) or CD71 Monoclonal Antibody, APC-eFluor 780 (purple histogram). Cells in the lymphocyte gate were used for analysis. Viability was determined by Fixable Viability Dye eFluor 450 (Product # 65-0863-18).

1 Reference

Flow Cytometry (1)

Cell

Functional Selectivity in Cytokine Signaling Revealed Through a Pathogenic EPO Mutation.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 47-0719-42) in Flow Cytometry"

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Species
Not Applicable

Dilution
Not Cited

Year
2017

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