

# CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), Alexa Fluor™ 700, 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), Alexa Fluor™ 700, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | OKT9 (OKT-9)  |
| Conjugate                   | Alexa Fluor™ 700  |
| 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_2815242  |

| Applications          | Tested Dilution     | Publications  |
|-----------------------|---------------------|---------------|
| Flow Cytometry (Flow) | 5 µL (0.25 µg)/test | 1 Publication |

## Product Specific Information

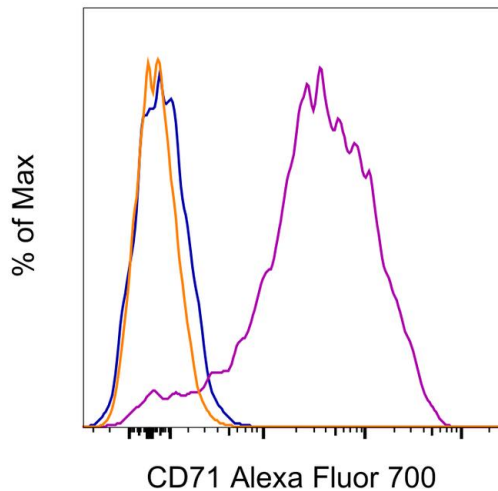
**Description:** The OKT9 monoclonal antibody reacts with human CD71, a 170-180 kDa type II transmembrane protein. CD71, the transferrin receptor, exists as a homodimer on the cell surface and is essential for cellular growth. CD71 is expressed by immature proliferating cells and at low levels on resting 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-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This may be used at 5 µL (0.25 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 10<sup>5</sup> to 10<sup>8</sup> cells /test.

Alexa Fluor 700 emits at 723 nm and can be excited with the red laser (633-647 nm). Most instruments will require a 685 LP mirror and 710/20 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser



### CD71 (Transferrin Receptor) Antibody (56-0719-42) 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, Alexa Fluor 700 (Product # 56-4714-80) (blue histogram) or CD71 Monoclonal Antibody, Alexa Fluor 700 (purple histogram). Viable cells in the lymphocyte gate were used for analysis, as 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 # 56-0719-42) in Flow Cytometry"

Authors: Kim AR, Ulirsch JC, Wilmes S, Unal E, Moraga I, Karakukcu M, Yuan D, Kazerounian S, Abdulhay NJ, King DS, Gupta N, Gabriel SB, Lander ES, Patrioglu T, Ozcan A, Ozdemir MA, Garcia KC, Piehler J, Gazda HT, Klein DE, Sankaran VG

Species  
Not Applicable

Dilution  
Not Cited

Year  
2017

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