

# CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), PerCP-eFluor 710, 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), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT9 (OKT-9)
Conjugate	PerCP-eFluor™ 710
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_2815138

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 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 (0.5 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.

PerCP-eFluor 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

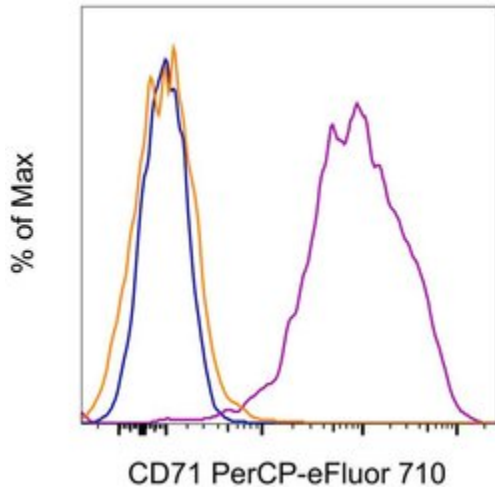
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer)

or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 488 nm; Emission: 710 nm; Laser: Blue Laser

## Product Images For CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), PerCP-eFluor 710, eBioscience™



### CD71 (Transferrin Receptor) Antibody (46-0719-42) 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, PerCP-eFluor 710 (Product # 46-4714-82) (blue histogram) or CD71 Monoclonal Antibody, PerCP-eFluor 710 (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 # 46-0719-42) 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, Patiroglu 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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