

CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), Super Bright 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), Super Bright 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT9 (OKT-9)
Conjugate	Super Bright 780
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784898

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 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This OKT9 antibody has been pre-diluted and tested by flow cytometric analysis of 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 10⁵ to 10⁸ cells/test.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

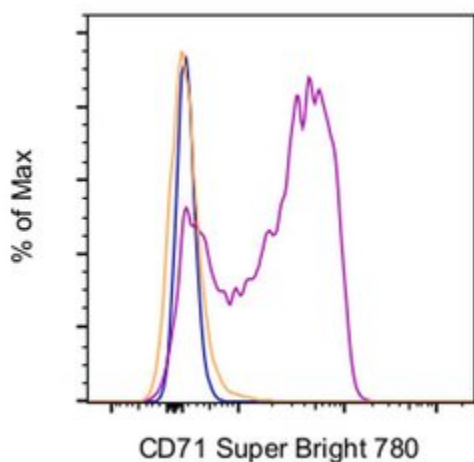
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 μ L of cell sample + 100 μ L 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: 405 nm; Emission: 780 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

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



CD71 (Transferrin Receptor) Antibody (78-0719-42) 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) and then stained with Mouse IgG1 kappa Isotype Control, Super Bright 780 (Product # 78-4714-82) (blue histogram) or CD71 Monoclonal Antibody, Super Bright 780 (purple histogram). Cells in the lymphocyte gate were used for analysis. Viability was determined by Fixable Viability Dye eFluor 780 (Product # 65-0865-18).

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 # 78-0719-42) in Flow Cytometry"

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Species
Not Applicable

Dilution
Not Cited

Year
2017

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