

CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT9 (OKT-9)
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573366

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	15 Publications

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 normal human peripheral blood cells. This can 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 10⁵ to 10⁸ cells/test.

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

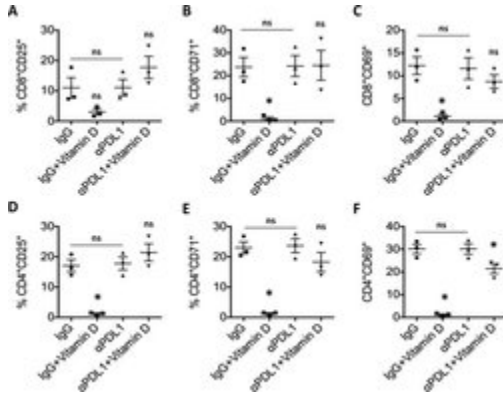
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

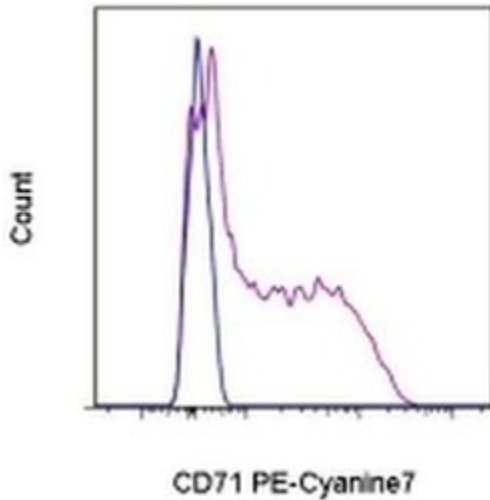
Advanced Verification Data



CD71 (Transferrin Receptor) Antibody (25-0719-42)

Figure 6. Open in a separate window 1,25D-dependent PD-L1 increase in epithelial cells results in reduction of activation of co-cultured CD4 + and CD8 + T cell populations. Flow cytometry of T cells co-cultured with 1,25D-pretreated SCC25 cells and stained for CD8 (A-C), CD4 (D-F), and the activation markers CD25 (A and D), CD71 (B and E), and CD69 (C and F). p values were calculated for treated (vitamin D, 1,25D) versus control (vehicle) in IgG and alphaPD-L1 groups separately and for control (IgG) versus control (PD-L1). Shown is vitamin D pretreatment for 24 h with 100 n m 1,25D (n = 3); ns > 0.05 >= *. Error bars , S.D. Cell treatment validation info.

Product Images For CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), PE-Cyanine7, eBioscience™



CD71 (Transferrin Receptor) Antibody (25-0719-42) in Flow

Staining of 3-day Anti-Human CD3 and Anti-Human CD28 Functional Grade Purified (Product # 16-0039-81 and Product # 16-0289-81)-stimulated normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (blue histogram) or Anti-Human CD71 (Transferrin Receptor) PE-Cyanine7 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

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Flow Cytometry (15)

Nature genetics

Common variants in signaling transcription-factor-binding sites drive phenotypic variability in red blood cell traits.

"25-0719 was used in Flow cytometry/Cell sorting to propose that the majority of the RBC-trait-associated variants that reside on transcription-factor-binding sequences fall in STF target sequences, suggesting that the phenotypic variation of RBC traits could stem from altered responsiveness to extracellular stimuli."

Authors: Choudhuri A, Trompouki E, Abraham BJ, Colli LM, Kock KH, Mallard W, Yang ML, Vinjamur DS, Ghamari A, Sporrij A, Hoi K, Hummel B, Boatman S, Chan V, Tseng S, Nandakumar SK, Yang S, Lichtig A, Superdock M, Grimes SN, Bowman TV, Zhou Y, Takahashi S, Joehanes R, Cantor AB, Bauer DE, Ganesh SK, Rinn J, Albert PS, Bulyk ML, Chanock SJ, Young RA, Zon LI

Species
Human

Dilution
1:60

Year
2020

Development (Cambridge, England)

The PAX-SIX-EYA-DACH network modulates GATA-FOG function in fly hematopoiesis and human erythropoiesis.

"25-0719 was used in Flow cytometry/Cell sorting to investigate novel PAX-SIX-EYA-DACH roles in vivo in Drosophila hematopoiesis and in human erythropoiesis in vitro Using Drosophila genetics."

Authors: Creed TM, Baldeosingh R, Eberly CL, Schlee CS, Kim M, Cutler JA, Pandey A, Civin CI, Fossett NG, Kingsbury TJ

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2020

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More applications with references on thermofisher.com

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