

CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT9 (OKT-9)
Conjugate	FITC
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_1724093

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	0.125 µg/mL	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	21 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.

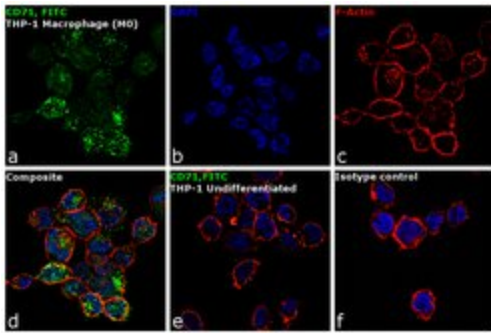
Applications Reported: This OKT9 (OKT-9) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This OKT9 (OKT-9) antibody has been pre-titrated and tested by flow cytometric analysis of PHA-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.

Excitation: 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

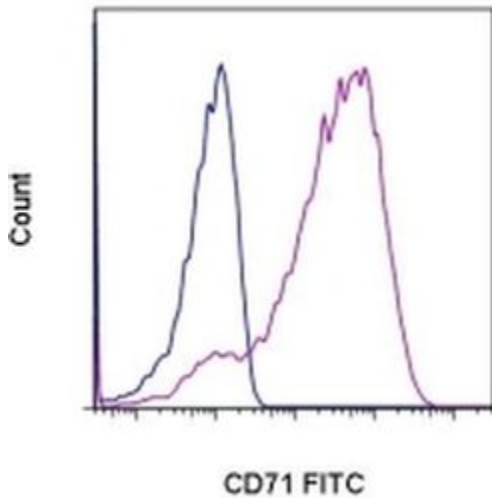
Advanced Verification Data



CD71 (Transferrin Receptor) Antibody (11-0719-42)

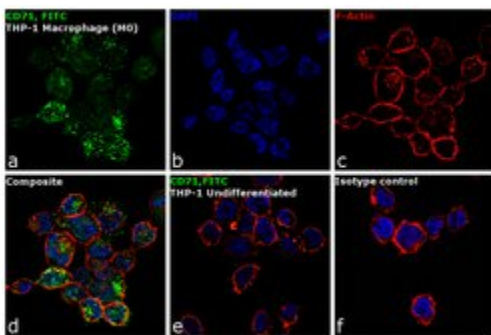
Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis of CD71 using Anti-CD71, FITC Mouse Monoclonal Antibody (OKT9 (OKT-9)) (Product # 11-0719-41) shows expression of proteins only in THP-1 cell line upon differentiation into Macrophage (M0 phase). Cell treatment validation info.

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



CD71 (Transferrin Receptor) Antibody (11-0719-42) in Flow

Staining of Anti-Human CD3 and Anti-Human CD28 Functional Grade Purified (Product # 16-0037-81 and Product # 16-0289-81)-stimulated normal human peripheral blood cells with Mouse IgG1 K Isotype Control FITC (Product # 11-4714-42) (blue histogram) or Anti-Human CD71 (Transferrin Receptor) FITC (purple histogram). Cells in the lymphocyte gate were used for analysis.



CD71 (Transferrin Receptor) Antibody (11-0719-42) in ICC/IF

Immunofluorescence analysis of CD71 was performed using 70% confluent log phase THP-1 cells differentiated into Macrophage (M0 phase). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with CD71, FITC Mouse Monoclonal Antibody (OKT9 (OKT-9)) (Product # 11-0719-41) at 0.125 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membrane localization. Panel e shows undifferentiated cells with no signal. Panel f represents control cells with Isotype control to assess background. The images were captured at 60X magnification.

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Immunocytochemistry (1)

Oncogene

Terminal differentiation and loss of tumorigenicity of human cancers via pluripotency-based reprogramming.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 11-0719-42) in Immunofluorescence"

Authors: Zhang X,Cruz FD,Terry M,Remotti F,Matushansky I

Species
Not Applicable

Dilution
Not Cited

Year
2013

Flow Cytometry (21)

Nature genetics

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

"11-0719 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

eLife

Gene-centric functional dissection of human genetic variation uncovers regulators of hematopoiesis.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 11-0719-42) in Flow Cytometry"

Authors: Nandakumar SK,McFarland SK,Mateyka LM,Lareau CA,Ulirsch JC,Ludwig LS,Agarwal G,Engreitz JM,Przychodzen B,McConkey M,Cowley GS,Doench JG,Maciejewski JP,Ebert BL,Root DE,Sankaran VG

Species
Not Applicable

Dilution
Not Cited

Year
2019

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More applications with references on thermofisher.com

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