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

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT9 (OKT-9)
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466504

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	18 Publications

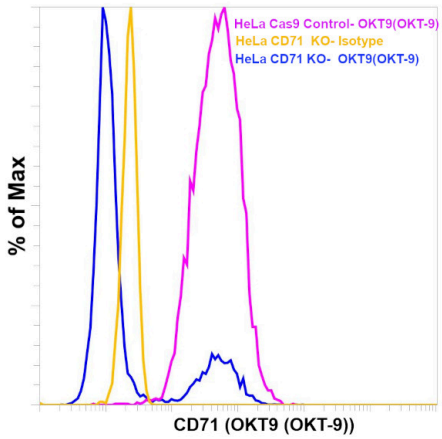
Product Specific Information

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.

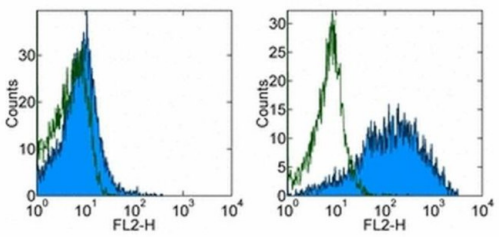
Applications Tested: This OKT9 (OKT-9) antibody has been tested by flow cytometric analysis of unstimulated and PHA-stimulated (3 days) human peripheral blood cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD71 (Transferrin Receptor) Antibody (13-0719-82)
Antibody clone (OKT9 (OKT-9)) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in CD71 KO cells (blue histogram) compared to the control Cas9 cells (pink histogram) using CD71 antibody (OKT9 (OKT-9)). Yellow histogram represents staining with the isotype control. {KO}



CD71 (Transferrin Receptor) Antibody (13-0719-82) in Flow
Staining of 3-day unstimulated (left) and 3-day PHA-stimulated (right) normal human peripheral blood cells with 0.06 µg of Mouse IgG1 kappa Isotype Control Biotin (Product # 13-4714-85) (open histogram) or 0.06 µg of Anti-Human CD71 (Transferrin Receptor) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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20 References

Immunocytochemistry (2)

BMC biology

Year
2022

Rapid increase in transferrin receptor recycling promotes adhesion during T cell activation.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 13-0719-82) in Flow Cytometry"

Authors: Rossatti P,Redpath GMI,Ziegler L,Samson GPB,Clamagirand CD,Legler DF,Rossy J

Oncogene

Year
2013

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

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 13-0719-82) in Immunofluorescence"

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

Flow Cytometry (18)

BMC biology

Year
2022

Rapid increase in transferrin receptor recycling promotes adhesion during T cell activation.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 13-0719-82) in Flow Cytometry"

Authors: Rossatti P,Redpath GMI,Ziegler L,Samson GPB,Clamagirand CD,Legler DF,Rossy J

NPJ precision oncology

Year
2022

A patient-designed tissue-engineered model of the infiltrative glioblastoma microenvironment.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 13-0719-82) in Flow Cytometry"

Authors: Cornelison RC,Yuan JX,Tate KM,Petrosky A,Beeghly GF,Bloomfield M,Schwager SC,Berr AL,Stine CA,Cimini D,Bafakih FF,Mandell JW,Purow BW,Horton BJ,Munson JM

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