

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

Product Details	
Size	50 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), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT9 (OKT-9)
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469002

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	14 Publications
Functional Assay (FN)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-

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 tested by flow cytometric analysis of PHA-stimulated human peripheral blood mononuclear cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

15 References

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 # 16-0719-81) in Immunofluorescence"

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

Species

Not Applicable

Dilution

Not Cited

Year

2013

Flow Cytometry (14)

eLife

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

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 16-0719-81) 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

The Journal of biological chemistry

Hormonal vitamin D up-regulates tissue-specific PD-L1 and PD-L2 surface glycoprotein expression in humans but not mice.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 16-0719-81) in Flow Cytometry"

Authors: Dimitrov V,Bouttier M,Boukhaled G,Salehi-Tabar R,Avramescu RG,Memari B,Hasaj B,Lukacs GL,Krawczyk CM,White JH

Species

Not Applicable

Dilution

Not Cited

Year

2017

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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