

# CD71 (Transferrin Receptor) Monoclonal Antibody (OKT9 (OKT-9)), PE, 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, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT9 (OKT-9)
Conjugate	PE
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_10717077

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	20 Publications

## Product Specific Information

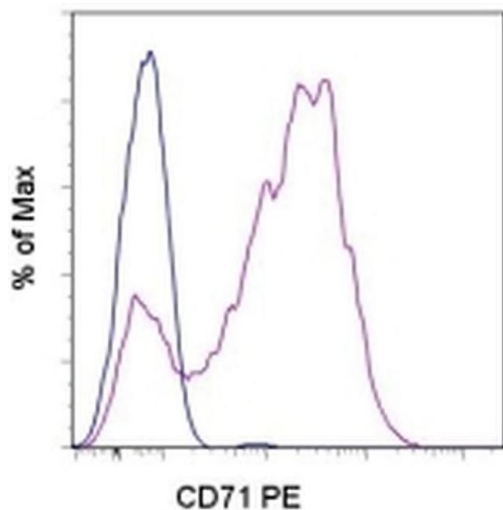
**Description:** The OKT9 monoclonal antibody reacts with human CD71, a 170-180 kDa type II transmembrane protein. CD71, the transferrin receptor, exists as a homodimer on the cell surface and is essential for cellular growth. CD71 is expressed by immature proliferating cells and at low levels on resting 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 human peripheral blood mononuclear cells. This can be used at 5 µL (.06 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<sup>5</sup> to 10<sup>8</sup> cells/test.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.



### CD71 (Transferrin Receptor) Antibody (12-0719-42) in Flow

Staining of 3-day anti-CD3/CD28-stimulated normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Human CD71 (Transferrin Receptor) PE (purple histogram). Total viable cells were used for analysis.

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## 20 References

### Flow Cytometry (20)

eLife

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

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 12-0719-42) 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

Thoracic cancer

#### Blocking transferrin receptor inhibits the growth of lung adenocarcinoma cells in vitro.

"12-0719 was used in Flow cytometry to provide evidence that blocking TfR could significantly inhibit LAC proliferation by targeting the oncogene KRAS; therefore, TfR may be a therapeutic target for LAC. In addition, our results suggest a new method for blocking the signal from the oncogene KRAS by targeting TfR in LAC."

Authors: Wu Y,Xu J,Chen J,Zou M,Rusidanmu A,Yang R

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2018

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

## More applications with references on thermofisher.com

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