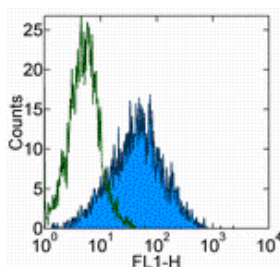


## Anti-Human CD71 (Transferrin Receptor) Purified

Catalog Number: 14-0719

Also Known As: TFRC

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of 3-day PHA-stimulated human peripheral blood cells with 0.25 ug of Mouse IgG1 kappa Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 ug of Anti-Human CD71 Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human CD71 (Transferrin Receptor) Purified

**REF** **Catalog Number:** 14-0719

**Clone:** OKT9 (OKT-9)

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Contains sodium azide**

### 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

The 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 unstimulated and CD3/CD28-activated (3 days) human blood leukocytes. 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Wenning LA, Murphy RM. 1999. Coupled cellular trafficking and diffusional limitations in delivery of immunotoxins to multicell tumor spheroids. *Biotechnol Bioeng.* 62(5):562-75

Terng HJ, Gessner R, Fuchs H, Stahl U, Lang C. Human transferrin receptor is active and plasma membrane-targeted in yeast. *FEMS Microbiol Lett.* 1998 Mar 1;160(1):61-7 (**OKT9**, IHC (electron microscopy), PubMed)

Franco A, Paroli M, Testa U, Benvenuto R, Peschle C, Balsano F, Barnaba V. Transferrin receptor mediates uptake and presentation of hepatitis B envelope antigen by T lymphocytes. *J Exp Med.* 1992 May 1;175(5):1195-205. (**OKT9**, FA, PubMed)

Salcedo TW, Fleit HB. 1991. Plasma membrane and intracellular pools of transferrin receptors decline during in vitro cultivation of U937 cells. *Cell Prolif.* 24(4):383-401

Sutherland R, Delia D, Schneider C, Newman R, Kemshead J, Greaves M. 1981. Ubiquitous cell-surface glycoprotein on tumor cells is proliferation-associated receptor for transferrin. *Proc Natl Acad Sci U S A.* 78(7): 4515-4519.

### Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)  
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)  
17-4317 Streptavidin APC

---

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.eBioscience.com](http://www.eBioscience.com) • [info@eBioscience.com](mailto:info@eBioscience.com)