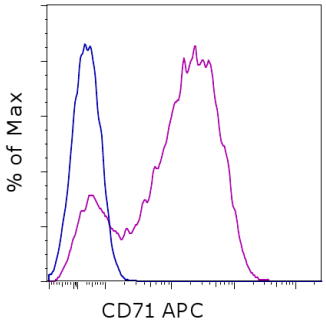
# Anti-Human CD71 (Transferrin Receptor) APC

**Catalog Number:** 17-0719
**Also known as:** TFRC
**RUO: For Research Use Only. Not for use in diagnostic procedures.**




Staining of 3-day anti-CD3/CD28-stimulated normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control APC (cat. 17-4714) (blue histogram) or Anti-Human CD71 (Transferrin Receptor) APC (purple histogram). Total viable cells were used for analysis.

## Product Information

**Contents:** Anti-Human CD71 (Transferrin Receptor) APC
REF **Catalog Number:** 17-0719
**Clone:** OKT9 (OKT-9)
**Concentration:** 5 uL (0.06 ug)/test
**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
**Use By:** Refer to vial

## 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 cells. This can be used at 5 µL (0.06 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 $10^5$ to $10^8$ cells/test.

## 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


Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

# Anti-Human CD71 (Transferrin Receptor) APC

**Catalog Number:** 17-0719
**Also known as:** TFRC
**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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**
16-0039 Anti-Human CD3 Functional Grade Purified (HIT3a)
16-0289 Anti-Human CD28 Functional Grade Purified (CD28.2)
17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.8.1)


Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com