

Monoclonal Antibody to CD71 / TFRC - FITC

Alternate names:	TfR1, Transferrin receptor protein 1, p90
Catalog No.:	AM08050FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	<p>CD71, a type II transmembrane glycoprotein expressed on the cell surface as a homodimer, is the Transferrin Receptor. It is essential for the growth of normal and neoplastic cells. (Ref.1,4) It is expressed at low levels on resting B and T lymphocytes but is upregulated during responses to antigens and mitogens, presumably reflecting the iron dependence of proliferation. (Ref.4) Its expression declines with maturation and differentiation. CD71 plays a critical role in cell proliferation by controlling the supply of iron, which is essential for many metabolic pathways, through the binding and endocytosis of transferrin, the major iron-carrying protein. It may also be involved in signal transduction via its association with the T cell receptor zeta chain.</p> <p>Clone RI7217 inhibits cell proliferation <i>in vitro</i>. (Ref.2)</p>
Uniprot ID:	Q62351
NCBI:	NP_035768.1
GeneID:	22042
Host / Isotype:	Rat / IgG2a
Clone:	RI7217
Format:	<p>State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow Cytometry: < / = 1 µg/10e6 cells. (Ref.1-3,5) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognises CD71/Transferrin Receptor, Mr 180-190 kDa (90-95 kDa under reducing conditions). Species: Mouse. Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>
General Readings:	<ol style="list-style-type: none">1. Lesley, J., R. Hyman, R. Schulte, and J. Trotter. 1984. Cell Immunol. 83:14.2. Kemp, J. D., J. A. Thorson, F. Gomez, K. M. Smith, J. S. Cowdery, and Z. K. Ballas. 1989.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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Cell Immunol. 122:218.

3. Lesley, J.F., and R.J. Schulte. 1985. Mol. Cell. Biol. 5:1814.

4. Kemp, J. D., J. A. Thorson, T. H. McAlmont, M. Horowitz, J. S. Cowdery, and Z. K. Ballas. 1987. J. Immunol. 138:2422.

5. Sauvage, C.A., J.C. Mendelsohn, J.F. Lesley, and I.S. Trowbridge. 1987. Cancer Res.47:747.

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