

Rat anti-Mouse CD71 Monoclonal Antibody

Rat Anti-Mouse CD71-BIOT

CATALOG # AAA78677	HOST Rat	REACTIVITY Mouse	APPLICATIONS Immunoprecipitation, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD71; Monoclonal Antibody; Rat Anti-Mouse CD71-BIOT; Rat Anti-Mouse CD71 - Biotin; Rat Anti-Mouse CD71; anti-CD71 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG2a kappa
Clone Number	RI7217
Specificity	CD71/transferrin receptor, Mr 180-190 kDa (90-95 kDa under reducing conditions) 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.^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.^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. The monoclonal antibody RI7217 inhibits cell proliferation in vitro.^2
Form/Format	Biotin (BIOT) Conjugate
Applicable Applications for anti-CD71 antibody	IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
Characterization	To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested by flow cytometry to conform to characteristics of a standard reference reagent. Representative data are included in this product insert.
Preparation and Storage	The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8 degree C. The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The R-phycoerythrin (R-PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Aliquot and store at or below -20 degree C. Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20 degree C immediately upon receipt. Each reagent is stable for the period shown on the bottle label if stored as directed.

ADDITIONAL INFORMATION

References	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. 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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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd71-antibody-clone-ri7217-immunoprecipitation-flow-cytometry-elisa/78677>