



CD71

Product: Anti-human CD71 (anti-transferrin receptor) monoclonal antibody.

Description: CD71 is specific for the human transferrin receptor, MW 190 kdaltons (kDa), 90 kDa reduced. CD71 antigen expression is low on normal resting lymphocytes and is expressed on all cells upon activation. The transferrin receptor is essential for iron transport into proliferating cells, such as mitogen-activated and alloantigen-activated lymphoblasts. The transferrin receptor is also present on early erythroid cells but is lost as reticulocytes differentiate into mature erythrocytes.

Isotype: IgG2a

Clone: BGX.24

Applications: Study of discrimination of activated lymphocytes from resting lymphocytes; Study of erythropoiesis; Analysis of metabolic activation or cellular proliferation.

Use: PBMC: Add 10 μ l of MAB/10⁶ PBMC in 100 μ l PBS. Mix gently and incubate for 15 minutes at 2^o to 8^oC. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. WHOLE BLOOD: Add 10 μ l of MAB/100 μ l of whole blood. Mix gently and incubate for 15 minutes at room temperature (20^oC). Lyse the whole blood. Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. See instrument manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

Storage: Antibodies are supplied in PBS, 0.08% sodium azide and 0.2% protein carrier for FITC. Antibodies should be stored at 4-8^oC. Monoclonal antibodies should not be frozen. Reagents are stable for the period shown on the vial label when stored properly.

Ordering Information:	Form	Vial Size	Catalog #
	Pure	100 μ g	0711
	FITC	100 Test	0712
	RPE	100 Test	0714

REFERENCES:

1. Newman R, Schneider C, Sutherland R, Vodinelich L, Greaves M. The transferrin receptor. Trends Biochem Sci. 1982;1:397.
2. Schwarting R, Stein H. Cluster report: CD71. In: Knapp W, Dörken B, Gilks WR, et al, eds. Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford: Oxford University Press;1989:455-460.
3. Jefferies WA, Brandon MR, Hunt SV, Williams AF, Gatter KC, Mason DY. Transferrin receptor on endothelium of brain capillaries. Nature. 1984;312:162-163.
4. Judd W, Poodry CA, Strominger JL. Novel surface antigens expressed on dividing cells but absent from non-dividing cells. J Exp Med. 1980;152:1430.
5. Phillips JH, Le AM, Lanier LL. Natural killer cells activated in a human mixed lymphocyte response culture identified by expression of Leu-11 and class II histocompatibility antigens. J Exp Med. 1984;159:993-1008.
6. Loken MR, Shah VO, Dattilio KL, Civin CI. Flow cytometric analysis of human bone marrow. I. Normal erythroid development. Blood. 1987;69:255-263.

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