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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Anti-Murine Transferrin Receptor—CD 71

CL89144

Lot:

DESCRIPTION

Cedarlane's CL89144 antibody stains proliferating cells of all types as well as cells taking up iron for special needs, such as late erythroid precursors and some mature macrophages. The antibody inhibits the iron uptake and the proliferation of macrophage precursors from bone marrow and early macrophage precursor cells lines. This antibody recognizes the transferrin receptor but does not compete with transferrin binding.

Application: Histology, FACS

CLONE: ER-MP21

TECHNICAL CHARACTERISTICS

Species:	Rat
Class/Subclass:	IgG2a
Purity:	Purified IgG from culture supernatant
Physical State:	Lyophilized
Quantity:	100µg
Buffer:	Phosphate buffered saline (PBS pH 7.2)
Stabilizer:	1% bovine serum albumin
Preservative:	0.01% Thimerosal
Reconstitute in:	0.5 ml distilled water (=stock solution)
Storage:	<ul style="list-style-type: none">• unreconstituted: 4°C for 1 year• after reconstitution: aliquot and freeze, stable for one year• do not freeze working dilutions
Approximate working dilution:	5 µg/ml (1:400) freshly prepared
Fixation:	Acetone, Formaldehyde, Glutaraldehyde

Caution: This product contains Thimerosal, a poisonous and hazardous substance.
For research and laboratory use only.

For more information or to place an order please contact...

CEDARLANE®
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BIOLOGICAL CHARACTERISTICS

SPECIFICITY

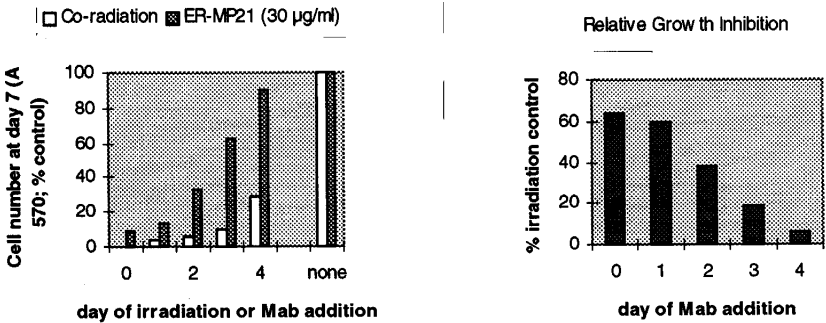
Mouse: transferrin receptor

Other: unknown

BIOCHEMISTRY

The antigen is a 200 kD protein (non-reducing conditions) consisting of two identical chains. The recognized epitope of the receptor is not located at the transferrin binding site.

Differentiation stage-dependent inhibition of macrophage proliferation by ER-MP21 in M-CSF- stimulated bone marrow cultures



Macrophage progeny at day 7 in bone marrow cultures, treated in parallel on various days by irradiation (1500 rad ^{60}Co γ -radiation) or addition of ER-MP21 (30 µg/ml final concentration). Cell numbers were quantified using the MTT assay and expressed relative to untreated controls. Relative growth inhibition calculated from the data is represented in the figure on the left. For mAb- or radiation treated cultures, the number of cell cycles needed to reach the cell number in untreated controls was calculated. Values obtained for irradiated cultures were taken as 100% inhibition controls and values for ER-MP21 treated cultures were expressed relative to these.

REFERENCES:

1. Leenen P.J.M., et al. Differential Inhibition of Macrophage Proliferation by Anti-Transferrin Receptor Antibody ER-MP21: Correlation to Macrophage Differentiation Stage. *Exp. Cell Res.*: 189: 55-63 (1990).
2. Brekelmans P., et al. Transferrin receptor expression as a marker of immature, cycling thymocytes in the mouse. *Cell. Immunol.* 159: 331-339 (1994).
3. Brekelmans P., et al. Inhibition of proliferation and differentiation during early T cell development by anti-transferrin receptor antibody. *Eur. J. Immunol.* 24: 2896-2902.

RESEARCH USE ONLY