BMA BIOMEDICALS
Rheinstrasse 28-32
CH-4302 Augst (Switzerland)
Phone:++41 61 811 6222
Fax: ++41 61 811 6006
info@bma.ch
www.bma.ch

FITC Labeled Monoclonal Antibody To Mouse Mid-Stage Macrophage Precursor Cells, Ly-6C

Marker For Late CFU-M, Monoblasts and Monocytes

Monoclonal antibody ER-MP20 is useful for the detection of macrophage precursor cells in mid-stage development (late CFU-M, monoblasts and monocytes). It is ideally suited for the detection of monocytes in bone marrow samples by FACS. ER-MP20 also identifies activated macrophages in inflammatory tissues where the simultaneous use of the murine pan-macrophage marker BM8 (anti F4/80, product T-2006) is recommended. ER-MP20 also detects a wide range of endothelial cells.

This antibody was produced serum-free, without fetal calf serum.

Product number: T-2020
Clone: ER-MP20
Lot: 09PF1904
TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, isotype:	Rat IgG2a
Quantity:	100µg
Format:	Affinity purified, FITC labelled with a FITC : protein ratio of 4.3, liquid Supplied as 1ml solution. This stock solution contains 0.1mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.09% sodium azide as a preservative.
Stability:	Original vial: 6 months at 4° - 8°C
Applications:	Has been described to work in FACS. **Approximate working dilution:** Optimal dilutions should be determined by the end user. Suggested positive control: Monocytes. Please see **www.bma.ch** for protocols and general information.
Immunogen:	Mouse macrophage cell lines.
Antigen, epitope:	The antigen is a glutaraldehyde (0.05%) and paraformaldehyde (1%) resistant 14kD surface protein which is very similar to Ly-6C and may be analogous to human CD59. It is inducible by IFN-alpha, IFN-beta and IFN-gamma.

Antigen distribution:	**Isolated cells:** In bone marrow cells the antigen is found on monoblasts and late CFU-M cells as well as on monocytes. It is also found on granulocytes and a subpopulation of lymphocytes in the peripheral blood. Granulocytic cells show a dull, and monocytic cells a bright antigen surface expression. Lymphoid cells express the antigen only very weakly. Thus, in the bone marrow three useful FACS windows can be defined for cell sorting purposes.
	Tissue sections: The antigen is found on macrophage precursor subpopulations in the bone marrow and haematopoietic islands of the lymphoid organs, and in the spleen. Endothelial cells of small vessels in various organs also stain positive with ER-MP 20. Activated macrophages in inflammatory tissues also express the ER-MP 20-related antigen.
Specificity:	**Mouse:** Macrophage precursor cells, endothelial cells.
	Other species: does not react with porcine tissues.

Selected references

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P.J.M. LEENEN et al.: Murine Macrophage Precursor Characterization II. Monoclonal Antibodies against Macrophage Precursor Antigens. Eur. J. Immunol. 20, 27-34 (1990).

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For *in vitro* research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.