

# Peninsula Laboratories, LLC

### A Member of the Bachem Group

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# 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.

Product Number: T-2020

Clone: ER-MP20

Host species, isotype: Rat lgG2a

**Quantity:** 100μg

Format: Affinity purified, FITC labelled, 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 0.1% 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.

**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.



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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: not tested

#### Selected references

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