



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Monoclonal Antibody To Mouse M-CSF Responsive Cells Marker For Myelopoietic Cells And All Macrophage Precursor Cells

Monoclonal Antibody ER-MP58 detects all M-CSF responsive cells in the bone marrow and the majority of other myeloid blood cell precursors. The antigen is detected on a broad development range of macrophage precursor cells up to the monocytic level. The antibody is also very suitable for the identification of myeloid haematopoietic islands in various organs, and for embryonic studies.

Product Number:	T-2002
Clone:	ER-MP58
Host species, isotype:	Rat IgM
Quantity:	1ml
Format:	Partially purified cell culture supernatant, liquid Supplied as 1ml solution. This stock solution contains phosphate buffered saline pH 7.2 (PBS) and 0.05% sodium azide as a preservative.
Stability:	Stock solution or aliquots thereof: 1year at -20°C . Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in FACS. Approximate working dilution for IHC: Frozen sections: 1:20 -1:50 Paraffin sections: 1:20; Proteinase K pretreatment for antigen retrieval is recommended. Optimal dilutions should be determined by the end user. Suggested positive control: Mouse spleen.
Immunogen:	Mouse macrophage cell lines.
Antigen, epitope:	Nature and function of the surface localized antigen are unknown. The antigen failed to immunoprecipitate.



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Antigen distribution:

Isolated cells: The antigen is present on bone marrow myeloid cells (over 60 % of freshly isolated bone marrow cells) including all M-CSF responsive cells. On myeloid cell lines the antigen is highly expressed in cells showing characteristics of cell precursors. Expression of the antigen decreases with maturation of macrophages.

Tissue sections: The antigen can be detected in all tissues containing myelopoietic islands.

Specificity:

Mouse: Myelopoietic cells, all macrophage precursor cells

Other species: unknown

Selected references

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

DE BRUIJN M.F.T.R. et. al. High level surface expression of ER-MP58 coincides with commitment to the myeloid lineage. *Eur. J. Immunol.* 26: 2850-2858 (1996).

CHAN J. et. al. Macrophage lineage cells inflammation: characterization by CSF-1 receptor (C-Fms), ER-MP58 and ER-MP20 (Ly-6c) expression. *Blood*, in press.

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