



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Monoclonal Antibody To Mouse Myeloid Precursor Cells Cytoplasmatic Antigen In Early Stage Myeloid Precursor Cells

Monoclonal antibody ER-MP54 is a general marker for detecting myeloid precursor cells in the bone marrow. The antigen is detected on a range of macrophage precursor cells up to the monoblast level.

Product Number:	T-2003
Clone:	ER-MP54
Host species, isotype:	Rat IgG1
Quantity:	100µg
Format:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year 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: 1µg/ml (1:200) Paraffin sections: does not react on routinely processed paraffin sections. Optimal dilutions should be determined by the end user. Suggested positive control: Mouse spleen. Immunogen: Mouse macrophage precursor cells.
Antigen, epitope:	Multiple antigens were precipitated by ER-MP54 under reducing and non-reducing conditions: Major bands could be detected at 90, 85-80 and 75-70 kDa, at lower amounts at 45kDa and less frequently at 27 and 12 kDa.



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Antigen distribution:

Isolated cells: The antigen is present on bone marrow myeloid cells up to monoblasts where the antigen is localized in the cytoplasm. Under specific experimental *in vitro* conditions, treatment by glucocorticoids, the antigen can also be detected on the cell surface.

Tissue sections: The antigen can be detected in bone marrow plugs and some clusters of red pulp in spleen.

Specificity:

Mouse: Myeloid precursors up to monoblasts, cytoplasmatic antigen

Other species: unknown

Selected references

Leenen, P.J.M., Melis, M., Slieker, W.A.T, Van Ewijk, W.: Murine Macrophage Precursor Characterization II. Monoclonal Antibodies against Macrophage Precursor Antigens. Eur. J. Immunol. 20: 27-34 (1990).

Leenen, P.J.M., Melis, M., Slieker, W.A.T, Van Ewijk, W.: Murine Macrophage Precursor Characterization I. Production, phenotype and differentiation of macrophages precursor hybrids J. Immunol. 20: 15-25 (1990).

Leenen, P.M.J., M.F.T.R. de Bruijn, J.S.A. Voerman, P.A. Campbell, W. van Ewijk: Markers of mouse macrophage development detected by monoclonal antibodies. J Immunol Meth 174: 5-19 (1994)

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