



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Monoclonal Antibody To Rat Macrophages Macrophages and Interdigitating Cells

Monoclonal Antibody RM-1 recognizes a surface antigen of unknown function on monocytes, macrophages, interdigitating cells and their *in vitro* equivalents.

Product Number:	T-3005
Clone:	RM-1
Host species, isotype:	Mouse 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: 2µg/ml (1:100) Paraffin sections: 20µg/ml (1:10); microwave pretreatment for antigen retrieval is recommended. Optimal dilutions should be determined by the end user. Suggested positive control: Rat spleen
Immunogen:	Rat peritoneal macrophages
Antigen, epitope:	The antigen is localized on the surface of cells. It is stable to 2% periodate-lysine-paraformaldehyde fixation. The epitope has not been further characterized.



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Antigen distribution:

Isolated cells: Positive on monocytes in peripheral blood. Positive on 20-30% of peritoneal cells, increasing to 30-40% after thioglycolate stimulation.

Tissue sections: The antigen is found on a subpopulation of most tissue fixed macrophages. It is quite predominant on red pulp macrophages and interdigitating cells in the outer periarteriolar lymphatic sheath of the spleen, the inner border of marginal sinus of lymph nodes, and alveolar macrophages. Langerhans cells of the skin and twisted spindle-shaped cells of the omentum are detected by the antibody. It is absent from sinusoidal endothelial cells and parenchymal cells.

Specificity:

Rat: monocytes, subpopulation of macrophages, interdigitating cells.

Other species: not tested

Selected references

TAKEYA, M. et al.: Heterogeneity of rat macrophages recognized by monoclonal antibodies: an immunohistochemical and immunoelectron microscopic study. J. Histochem Cytochem: 37: 635-641 (1989)

KATO, T. et al.: Chemically induced transplantable malignant fibrous histiocytoma of the rat. Analysis with immunohistochemistry, immunoelectron microscopy and ³H thymidine autoradiography. Lab Invest: 62: 635-645 (1990)

IZUMI, S. et al.: Ontogenic Development of synovial A cells in fetal and neonatal rat knee joints. Cell Tiss Res : 262: 1-8 (1990).

KASPER, M. et al.: Heterogenous Dolichos biflorus lectin binding to a subset of rat alveolar macrophages in normal and fibrotic lung tissue. Acta Histochem 95: 1-11 (1993)

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