



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Monoclonal Antibody To Rat Follicular Dendritic Cells Accessory B Cells

Monoclonal Antibody Ki-M9R detects a cytoplasmic antigen in accessory B-cells which are involved in antigen trapping reactions. The antigen is only expressed in sinus lining cells of lymph nodes, in follicular dendritic cells of germinal centres, and in metallophilic cells of the spleen. Thus it seems that the antigen is associated with antigen processing cells that migrate to germinal centres to develop into follicular dendritic cells.

Product Number:	T-3008
Clone:	Ki-M9R
Host species, isotype:	Mouse IgG1
Quantity:	500µg
Format:	Affinity purified, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 1mg/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). Approximate working dilution for IHC: Frozen sections: 5µg/ml (1:200) Paraffin sections: 50µg/ml (1:20); Proteinase K 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:	Ki-M9R detects a 49kDa cytoplasmic antigen. The epitope has not been further characterized.



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Antigen distribution:

Isolated cells: Ki-M9R is negative with all peripheral blood cells and cells of the bone marrow or peritoneal cavity.

Tissue sections: Ki-M9R specifically recognises antigen trapping macrophages of the B-cell system such as sinus lining cells and dendritic reticulum cells. It is also positive on splenic metallophils. Macrophages in T-cell areas are negative with Ki-M9R. None of the macrophages in non-lymphoid organs are detected by Ki-M 9R. No cross-reactivity was found with other cell types at different tissue sites except with hepatic sinusoids. In vivo administration of Ki-M9R reveals a direct cytotoxicity to, and the elimination of Ki-M9R positive cells. Animals survive this treatment.

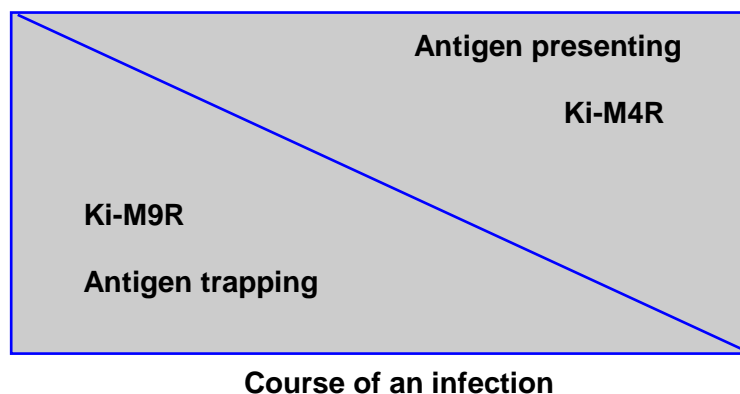
Specificity:

Rat: subpopulation of macrophages.

Other species: not tested

Comments:

During the course of an infection the number of antigen trapping cells decreases while the number of antigen presenting cells increases.



Unpublished data raised in The Institute of Pathology, Michaelisstrasse 11, 2300 Kiel, Germany

Selected references

Data obtained in the laboratory of the Institute of Pathology, Kiel, Germany

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