



**BMA BIOMEDICALS**

BMA BIOMEDICALS  
Rheinstrasse 28-32  
CH-4302 Augst (Switzerland)  
Phone: ++41 61 811 6222  
Fax: ++41 61 811 6006  
info@bma.ch  
www.bma.ch

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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 expressed in sinus lining cells of lymph nodes, in follicular dendritic cells of the thymus, in metallophilic cells delineating the border between lymphatic B-zone and the marginal zone in the spleen, and in dendritic cells of the mucosa-associated lymphoid tissue in germinal centres of lymphatic follicles. The antigen may be associated with antigen processing cells that migrate to germinal centres to develop into follicular dendritic cells.

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**Product number: T-3008**

**Clone: Ki-M9R**

**Lot: 02PO1317**

### **TECHNICAL AND ANALYTICAL CHARACTERISTICS:**

<b>Host species, isotype:</b>	Mouse IgG1
<b>Quantity:</b>	500µg
<b>Format:</b>	Affinity purified, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 1mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% sodium azide as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC). <b>Approximate working dilution for IHC:</b> Frozen sections: 5-10µg/ml (1:100-1:200) Paraffin sections: not tested Optimal dilutions should be determined by the end user. Suggested positive control: Rat spleen Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Rat peritoneal macrophages.
<b>Antigen, epitope:</b>	Ki-M9R detects a 49kDa cytoplasmic antigen. The epitope has not been further characterized.

**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:**

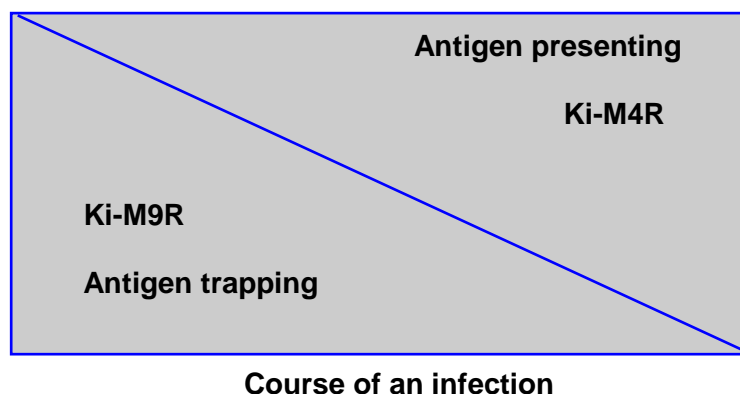
**Rat:** subpopulation of macrophages.

**Other species:** not tested

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**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

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**Selected references**

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

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