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## **Biotinylated Monoclonal Antibody To Rat B Lymphocytes**

Monoclonal antibody Ki-T1R is a pan-T-cell marker useful for the characterisation of lymphoid organs and for the study of the interaction of T-cells with other cell types e.g. macrophages.

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<b>Product Number:</b>	T-3122 (Lot 01PB9411)
<b>Clone:</b>	Ki-T1R
<b>Host species, isotype:</b>	Mouse IgG2a
<b>Quantity:</b>	200µg
<b>Format:</b>	Purified, biotinylated, lyophilized  Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/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.
<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); has been described to work in FACS.  <b>Approximate working dilution for IHC:</b> Frozen sections: 0.25µg/ml (1:800) 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 lymphocytes.
<b>Antigen, epitope:</b>	Ki-T1R detects an epitope of a 161kD glycoprotein (4 bands of 36kD, 38kD, 40kD and 47kD under reducing conditions) which is located on the outer surface of cytoplasmic membranes.

**Antigen distribution:**

**Isolated cells:** Ki-T1R detects approximately 80% of peripheral blood T-cells. It is negative on all other cell types.

% Positive Peripheral Lymphocytes

Experiment	Ki-B1R	sIg <sup>+</sup>	Ki-T1R
1	28	16	70
2	15	21	80
3	18	13	83
4	18	19	76
5	21	16	79
n = 5	19 ±3	18 ±3	79 ±3

Unpublished data raised in the Institute of Pathology, Michaelisstrasse 11, 2300 Kiel, Germany.

**Tissue sections:** Ki-T1R shows very characteristic staining patterns in lymphoid organs according to the T-cell distribution; paracortical T-cell zone of lymphnodes, periarteriolar T-cell zones of the spleen, T-cell nodules of the gastrointestinal tract and bone marrow, thymocytes with prevalence from thymus medulla.

**Specificity:**

**Rat:** T-lymphocytes.

**Other:** not tested

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