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## Monoclonal Antibody to Rat B Lymphocytes

Monoclonal antibody Ki-B1R is a pan B-cell marker useful for detecting B-lymphocytes and plasma cells in cell suspensions and cryostat sections of rat tissues.

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<b>Product Number:</b>	T-3106 (Lot 03PO1002)
<b>Clone:</b>	Ki-B1R
<b>Host species, isotype:</b>	Mouse IgG1
<b>Quantity:</b>	50µg
<b>Format:</b>	Affinity purified, lyophilized  Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.1mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.09% 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: 0.25µg/ml (1:400) Paraffin sections: 10µg/ml (1:10); no antigen retrieval required, microwave treatment may enhance the reactivity.  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-B1R recognises a surface antigen of 47kDa molecular weight, which appears as a single band under reducing conditions in SDS-PAGE. The epitope has not been further characterized.

**Antigen distribution:**

**Isolated cells:** In a test comparing the immunophenotype of rat blood lymphocytes, Ki-B1R recognised 19%  $\pm$  3% of peripheral blood lymphocytes (n=5). In the same test, 18%  $\pm$  3% of the lymphocytes stained positive for slg, whereas 79%  $\pm$  3% stained positive with Ki-T1R, the rat pan T-cell marker.

**Tissue sections:** Ki-B1R shows a staining pattern similar to that of anti-rat immunoglobulin markers. Follicular mantle B-lymphocytes are strongly positive whereas staining of germinal centre B-lymphocytes depends on the immunological status of the lymphoid organ. In the gastrointestinal tract, the typical mucosa-associated lymphoid tissue (MALT) selectively displays the B-follicles, mostly those containing prominent germinal centres. The reactivity pattern of Ki-B1R does not change when applied *in vivo*.

**Specificity:**

**Rat:** mature B-lymphocytes, plasma cells.

**Other species:** not tested.

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