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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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**Product number: T-3106**

**Clone: Ki-B1R**

**Lot: 03PO1002**

### TECHNICAL AND ANALYTICAL CHARACTERISTICS:

**Host species, subclass:** Mouse IgG1

**Quantity:** 50µg

**Format:** 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.

**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: 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 [www.bma.ch](http://www.bma.ch) for protocols and general information.

**Immunogen:** Rat lymphocytes.

**Antigen, epitope:** 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:** does not react with porcine tissues.

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