
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 (Lot 01PO9110) |
| Clone: | Ki-B1R |
| Host species, isotype: | 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), 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: 1µg/ml (1:100) 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 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: not tested.

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