



BMA BIOMEDICALS

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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-3106 (Lot 03PO1002)
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), 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 from date of purchase. Stock solution or aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: 0.25µg/ml (1:400) Paraffin sections: 10µg/ml (1:10); pretreatment in microwave with citrate buffer for antigen retrieval is recommended 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
Protein database:	<u>rat-Q66HA6</u>
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.

For in vitro research only. This product contains sodium azide as a preservative.