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# Product datasheet for BM4013

### B-Cells (pan) Mouse Monoclonal Antibody [Clone ID: Ki-B1R]

#### **Product data:**

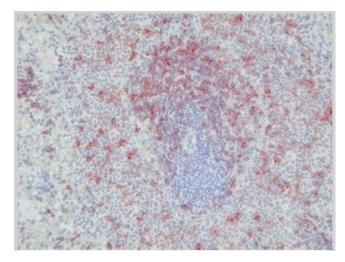
Product Type:	Primary Antibodies
Clone Name:	Ki-B1R
Applications:	FC, IHC
Recommended Dilution:	Immunohistochemistry on Frozen sections: 1 μg/ml (1/100). Immunohistochemistry on Paraffin sections: 10 μg/ml (1/10). No antigen retrieval required, microwave treatment may enhance the reactivity. <i>Suggested Positive Control:</i> Rat spleen. Has been described to work in <b>FACS.</b>
Reactivity:	Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Rat lymphocytes
Specificity:	<ul> <li>Monoclonal Rat B-lymphocyte antibody BM4013 (clone Ki-B1R) is a pan B-cell marker useful for detecting B-lymphocytes and plasma cells in cell suspensions and tissue sections.</li> <li>Ki-B1R recognises a surface antigen of 47 kD molecular weight, which appears as a single band under reducing conditions in SDS-PAGE.</li> <li>The antibody is specific for Rat mature B-lymphocytes and plasma cells. Other species not tested.</li> <li>Antigen Distribution:</li> <li>Isolated Cells: In a test comparing the immunophenotype of rat blood lymphocytes, Ki-B1R recognised 19% +/- 3% of peripheral blood lymphocytes (n=5).</li> <li>In the same test, 18% +/- 3% of the lymphocytes stained positive for slg, whereas 79% +/- 3% stained positive with Ki-T1R, the rat pan T-cell marker.</li> <li>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 lyphoid 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.</li> </ul>



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<b>ORIGENE</b> B-Cells (pan) Mouse Monoclonal Antibody [Clone ID: Ki-B1R] – BM4013	
Formulation:	PBS, pH 7.2 with 10 mg/ml BSA as a stabilizer and 0.01% thimerosal as a preservative State: Purified State: Lyohilized purified IgG fraction
<b>Reconstitution Method:</b>	Restore with 0.5 ml distilled water.
Concentration:	0.1 mg/ml (after reconstitution)
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Background:	B cells are lymphocytes that play a large role in the humoral immune response as opposed to the cell-mediated immune response that is governed by T cells. The abbreviation "B" comes from bursa of Fabricius that is an organ in birds in which avian B cells mature. The principal function of B cells is to make antibodies against soluble antigens. B cells are an essential component of the adaptive immune system.
Synonyms:	B-cell marker, B cells

## **Product images:**



Immunohistochemical staining on rat spleen frozen sections using B Lymphocytes antibody clone Ki-B1R Cat.-No. BM4013.

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