

## Monoclonal Rat Antibody to Human CD52 (CAMPATH-1)

<b>Catalog No.:</b>	SM1136
<b>Quantity/Conc.:</b>	0.5 ml / 2.0 mg/ml IgM
<b>Clone:</b>	YTH 66.9HL: Also known as CAMPATH-1 or 1M.
<b>Host/Isotype:</b>	Rat IgM kappa
<b>Immunogen:</b>	Human T lymphocytes
<b>Format:</b>	This antibody is supplied as liquid Ig fraction purified from supernatant in PBS containing 0.09% sodium azide as preservative.
<b>Applications:</b>	Immunohistochemistry on frozen sections (1:20). Western blotting. Flow cytometry (use 10ul of 1:20 diluted antibody to label $10^6$ cells in 100 $\mu$ l). Also useful for complement cytotoxicity assays. Other applications not tested. Optimal dilutions should be determined by the user.
<b>Specificity:</b>	<p>SM1136 reacts with the human CD52 antigen, also known as CAMPATH-1. The CD52 antigen is a remarkably small peptide that is heavily glycosylated, and attached to the cell surface membrane via a GPI link. The apparent molecular mass of the antigen on SDS-PAGE is 25-29kD.</p> <p>CD52 is expressed at high density by lymphocytes, monocytes, eosinophils, thymocytes and macrophages. It is expressed by most lymphoid derived malignancies, although expression on myeloma cells is variable.</p> <p>Humanised versions of CAMPATH-1 specific antibodies are currently in clinical trials for the treatment of a range of lymphoid malignancies.</p> <p>Species Cross Reactivity: Clone YTH 66.9HL is reported to cross react with Cynomolgus monkey (3, 4).</p>
<b>Storage:</b>	Store the antibody at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>References:</b>	<ol style="list-style-type: none"><li>1. Hale, G. <i>et al.</i> (1985). Reactivity of rat monoclonal antibody CAMPATH-1 with human leukaemia cells and its possible application for autologous bone marrow transplantation. <i>Br. J. Haem.</i> 80: 41-48.</li><li>2. Hale, G. <i>et al.</i> (1998). Improving the Outcome of Bone Marow Transplantation by using CD52 Monoclonal Antibodies to prevent graft-versus-host disease and graft rejection. <i>Blood</i> 92: 4581-4590.</li><li>3. Hale, G. <i>et al.</i> (1983). Effects of monoclonal anti lymphocyte antibodies <i>in vivo</i> in monkeys and humans. <i>Mol. Biol. Med</i> 1: 321-334.</li><li>4. Yoshino, N. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (<i>Macaca fascicularis</i>) by using anti-human cross-reactive antibodies. <i>Exp. Anim.</i> 49 (2): 97-110</li></ol>

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