

# Datasheet: MCA349R

**BATCH NUMBER 180412**

<b>Description:</b>	RAT ANTI HUMAN CD52
<b>Specificity:</b>	CD52
<b>Other names:</b>	CAMPATH-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YTH66.9HL
<b>Isotype:</b>	IgM
<b>Quantity:</b>	0.1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/20
Immunohistology - Frozen	▪			1/20
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			
Cytotoxic Assays	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Cynomolgus monkey</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Ig fraction - liquid

<b>Preparation</b>	Ig fraction prepared by ammonium sulphate precipitation from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgM concentration 2 mg/ml
<b>Immunogen</b>	Human T lymphocytes.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P31358</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1043</a>    CD52    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CDW52, HE5
<b>RRID</b>	AB_324105
<b>Fusion Partners</b>	Spleen cells from an immunised DA rat were fused with cells of the Y3/Ag.1.2.3 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Human CD52 antibody, clone YTH66.9HL</b> recognizes human CD52, also known as CAMPATH-1. The CD52 antigen is a small heavily glycosylated peptide attached to the cell surface membrane via a GPI link. The apparent molecular mass of the antigen on SDS-PAGE is 25-29 kDa.</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 used for the treatment of a range of lymphoid malignancies (<a href="#">Blatt <i>et al.</i> 2014</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">Br J Haematol. 60 (1): 41-8.</a></li> <li>Hale, G. <i>et al.</i> (1998) Improving the outcome of bone marrow transplantation by using CD52 monoclonal antibodies to prevent graft-versus-host disease and graft rejection. <a href="#">Blood. 92 (12): 4581-90.</a></li> <li>Hale, G. <i>et al.</i> (1983) Effects of monoclonal anti-lymphocyte antibodies <i>in vivo</i> in monkeys and humans. <a href="#">Mol Biol Med. 1 (3): 321-34.</a></li> <li>Yoshino, N. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts,</li> </ol>

cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. [Exp Anim. 49 \(2\): 97-110.](#)  
5. van der Windt, D.J. *et al.* (2010) Investigation of lymphocyte depletion and repopulation using alemtuzumab (Campath-1H) in cynomolgus monkeys. [Am J Transplant. 2010 Apr;10\(4\):773-83.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA349R>  
10040

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Rat IgM (302001...) [Biotin](#)

Goat Anti Rat IgM (STAR116...) [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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