

Datasheet: MCA349R

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

	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.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Cynomolgus monkey</p> <p>N.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>
Product Form	Ig fraction - liquid
Preparation	Ig fraction prepared by ammonium sulphate precipitation from tissue culture supernatant.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgM concentration 2 mg/ml
Immunogen	Human T lymphocytes.
External Database Links	<p>UniProt: P31358 Related reagents</p> <p>Entrez Gene: 1043 CD52 Related reagents</p>
Synonyms	CDW52, HE5
RRID	AB_324105
Fusion Partners	Spleen cells from an immunized DA rat were fused with cells of the Y3/Ag.1.2.3 myeloma cell line.
Specificity	<p>Rat anti Human CD52 antibody, clone YTH66.9HL 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>Humanized versions of CAMPATH-1 specific antibodies are used for the treatment of a range of lymphoid malignancies (Blatt <i>et al.</i> 2014).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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. Br J Haematol. 60 (1): 41-8. 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. Blood. 92 (12): 4581-90. Hale, G. <i>et al.</i> (1983) Effects of monoclonal anti-lymphocyte antibodies <i>in vivo</i> in monkeys and humans. Mol Biol Med. 1 (3): 321-34. 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. 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.](#)
6. van Wanrooij, R.L.J. *et al.* (2021) Adult-Onset Autoimmune Enteropathy in an European Tertiary Referral Center. [Clin Transl Gastroenterol. 12 \(8\): e00387.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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