

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	Reacts with: Cynomolgus monkey N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Ig fraction - liquid
Preparation	Ig fraction prepared by ammonium sulphate precipitation from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
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
Fusion Partners	Spleen cells from an immunised 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>Humanised 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. Haem. 80: 41-48. 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. Blood 92: 4581-4590. 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: 321-334. 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: 97-110. van der Windt, D.J. <i>et al.</i> (2010) Investigation of lymphocyte depletion and repopulation using alemtuzumab (Campath-1H) in cynomolgus monkeys. Am J Transplant. 2010 Apr;10(4):773-83.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
Shelf Life	18 months from date of despatch.

Health And Safety Information Material Safety Datasheet Documentation #10040 available at:
<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...) [Alk. Phos.](#), [FITC](#), [HRP](#)

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