**Datasheet: MCA1642PET**

**Description:** RAT ANTI HUMAN CD52:RPE

**Specificity:** CD52

**Other names:** CAMPATH-1

**Format:** RPE

**Product Type:** Monoclonal Antibody

**Clone:** YTH34.5

**Isotype:** IgG2b

**Quantity:** 25 TESTS/0.25ml

**Product Details**

**RRID** AB_2075610

**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).

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>-</td>
<td></td>
<td>Neat</td>
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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: Rhesus Monkey

**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

**Reconstitution**

Reconstitute with 0.25ml distilled water

**Max Ex/Em**

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
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**Preparation**

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide

1% Bovine Serum Albumin

5% Sucrose
**Immunogen**  
Human lymphocytes.

**External Database Links**  
UniProt:  
P31358  
Related reagents

Entrez Gene:  
1043  
CD52  
Related reagents

**Synonyms**  
CDW52, HE5

**Specificity**  
Rat anti Human CD52 antibody, clone YTH34.5 reacts with the human CD52 antigen, also known as CAMPATH-1. The CD52 antigen is a remarkably small but heavily glycosylated peptide attached to the cell surface membrane via a GPI link (Xia et al. 1991).

The apparent molecular mass of the native antigen on SDS-PAGE is 25-29kDa, considerably reduced following N-glycanase treatment (Rowan et al. 1998).

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.

Humanized versions of CAMPATH-1 specific antibodies are currently in clinical trials for the treatment of a range of lymphoid malignancies (Dearden et al. 2002; Pettitt et al. 2012).

**Flow Cytometry**  
Use 10ul of the suggested working dilution to label 1 x 10^6 cells in 100ul

**References**

12. Westermann, J. et al. (2005) CD52 is not a promising immunotherapy target for most patients

Storage
Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee
12 months from date of reconstitution.

Health And Safety
Information
Material Safety Datasheet documentation #10075 available at:

Regulatory
For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL:RPE (MCA6006PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)