Datasheet: MCA1642EL

**Description:** RAT ANTI HUMAN CD52: Low Endotoxin

**Specificity:** CD52

**Other names:** CAMPATH-1

**Format:** Low Endotoxin

**Product Type:** Monoclonal Antibody

**Clone:** YTH34.5

**Isotype:** IgG2b

**Quantity:** 0.5 mg

**RRID:** AB_566845

### 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).

<table>
<thead>
<tr>
<th>Application</th>
<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></td>
<td>1/50 - 1/100</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>Immunohistology - Resin</td>
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<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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<tr>
<td>Cytotoxic Assays</td>
<td></td>
<td></td>
<td></td>
<td>50ug/ml (Use human serum as complement source)</td>
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</tbody>
</table>

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 - liquid

**Preparation**

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

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

None present
**Approx. Protein Concentrations**

IgG concentration 1.0 mg/ml

**Immunogen**

Human lymphocytes.

**External Database Links**

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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</thead>
<tbody>
<tr>
<td>P31358</td>
<td></td>
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</tbody>
</table>

**Entrez Gene:**

1043 CD52 Related reagents

**Synonyms**

CD52, 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 10⁶ cells in 100ul.

**Histology Positive Control Tissue**

Tonsil

**References**


### Storage

Store at -20°C only.

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.

### Guarantee

18 months from date of despatch.

### Health And Safety Information

Material Safety Datasheet documentation #10162 available at:


### Related Products

#### Recommended Secondary Antibodies

- **Rabbit Anti Rat IgG (STAR17...)**
  - *FITC*
- **Goat Anti Rat IgG (STAR69...)**
  - *FITC*
- **Goat Anti Rat IgG (STAR131...)**
  - *Alk. Phos., Biotin*
- **Goat Anti Rat IgG (STAR73...)**
  - *RPE*
**Recommended Negative Controls**

**RAT IgG2b NEGATIVE CONTROL: Low Endotoxin (MCA6006EL)**