Datasheet: MCA1940FT

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN CD19:FITC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>CD19</td>
</tr>
<tr>
<td>Format:</td>
<td>FITC</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>LT19</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>25 µg</td>
</tr>
</tbody>
</table>

Product Details

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.

<table>
<thead>
<tr>
<th>Applications</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>Neat - 1/10</td>
</tr>
</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

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
</tr>
</tbody>
</table>

Preparation

Purified IgG from ascites prepared by precipitation and ion exchange chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

External Database Links

UniProt: P15391 Related reagents

Entrez Gene: 930 CD19 Related reagents
**Specificity**  
Mouse anti Human CD19 antibody, clone LT19 recognizes human CD19 also known as T-cell surface antigen Leu-12 or B-lymphocyte surface antigen B4. CD19 is a ~95 kDa type I single pass transmembrane glycoprotein expressed on follicular dendritic cells and B-cells during maturation but is lost on development into plasma cells (de Rie et al. 1989).

CD19 is the broadest lineage specific marker for B cells and functions as a B-cell co-receptor in conjunction with CD21 (Bradbury et al. 1992), CD9, CD81 and CD82 (Horváth et al. 1998). CD19 is implicated in the down-regulation of B cell growth and proliferation (Pezzutto et al. 1987).

**Flow Cytometry**  
Use 10ul of the suggested working dilution to label 100ul of lysed whole peripheral blood.

**References**


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

This product should be stored undiluted.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product
contain a precipitate we recommend microcentrifugation before use.

### Shelf Life
18 months from date of despatch.

### Health And Safety Information
Material Safety Datasheet documentation #10041 available at:

### Regulatory
For research purposes only

## Related Products
### Recommended Negative Controls
- MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

### Recommended Useful Reagents
- HUMAN SEROBLOCK (BUF070A)
- HUMAN SEROBLOCK (BUF070B)