Datasheet: MCA1710PB

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN CD20:Pacific Blue®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>CD20</td>
</tr>
<tr>
<td>Format:</td>
<td>Pacific Blue®</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>2H7</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG2b</td>
</tr>
<tr>
<td>Quantity:</td>
<td>100 TESTS/1ml</td>
</tr>
</tbody>
</table>

Product Details

RRID: AB_566609

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>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 - 1/5</td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td></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 conjugated to Pacific Blue® - 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>Pacific Blue®</td>
<td>410</td>
<td>455</td>
</tr>
</tbody>
</table>

Preparation

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

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml
**Synonyms**
CD20

**Specificity**

**Mouse anti Human CD20 antibody, clone 2H7** recognizes the human CD20 cell surface antigen, a 33-37 kDa non-glycosylated phosphoprotein.

The CD20 antigen is expressed during pre-B-cell development. It is present on both resting and activated B-cells but is lost prior to terminal B-cell differentiation into plasma cells.

The epitope recognized by clone 2H7 has been mapped to the following sequence found in the large extracellular loop of human CD20: YNCEPANPSEKNSPST. Furthermore it appears that Mouse anti Human CD20 antibody, clone 2H7 only recognizes human CD20 in its native oligomeric form (Polyak et al. 2002).

**Flow Cytometry**

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

**References**

13. Popov, J. et al. (2017) Unique therapeutic properties and preparation methodology of...

Further Reading

Storage
Store at +4°C or at -20°C if preferred. This product should be stored undiluted. This product is photosensitive and should be protected from light. 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.

Acknowledgements
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Health And Safety Information

Regulatory
For research purposes only

Related Products
Recommended Negative Controls
MOUSE IgG2b NEGATIVE CONTROL: Pacific Blue® (MCA691PB)

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