Datasheet: MCA1710F

### Description

MOUSE ANTI HUMAN CD20:FITC

### Specificity

CD20

### Format

FITC

### Product Type

Monoclonal Antibody

### Clone

2H7

### Isotype

IgG2b

### Quantity

0.1 mg

### RRID

AB_322660

### 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>Neat - 1/10</td>
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<tr>
<td>Immunofluorescence</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 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>
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<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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</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 0.1 mg/ml
**External Database Links**

- **UniProt:** P11836
- **Related reagents**

- **Entrez Gene:**
  - 931 MS4A1
  - Related reagents

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**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 $10^6$ cells or 100ul whole blood.

**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.

**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:

**Regulatory**

For research purposes only

**Related Products**

**Recommended Negative Controls**

MOUSE IgG2b NEGATIVE CONTROL:FITC (MCA691F)

**Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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