Datasheet: MCA1710GA

Description: MOUSE ANTI HUMAN CD20

Specificity: CD20

Format: Purified

Product Type: Monoclonal Antibody

Clone: 2H7

Isotype: IgG2b

Quantity: 0.1 mg

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.abdserotec.com/protocols.

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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>1/50 - 1/100</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>Western Blotting</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 - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

Approx. Protein Concentrations

IgG concentration 1mg/ml

External Database Links

UniProt:

P11836

Related reagents

Entrez Gene:
**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**

8. Polyak, M.J. et al. (2002) Alanine-170 and proline-172 are critical determinants for extracellular CD20 epitopes; heterogeneity in the fine specificity of CD20 monoclonal antibodies is defined by additional requirements imposed by both amino acid sequence and quaternary structure. Blood. 199:3256-62.

**Storage**

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

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.

**Shelf Life**

18 months from date of despatch.

**Health And Safety**

Material Safety Datasheet Documentation #10040 available at:
Related Products

**Recommended Secondary Antibodies**

- Rabbit Anti Mouse IgG (STAR8...)
- Goat Anti Mouse IgG (STAR76...)
- Goat Anti Mouse IgG (STAR77...)
- Rabbit Anti Mouse IgG (STAR9...)
- HuCAL Anti Mouse IgG2b (HCA038...)
- Goat Anti Mouse IgG IgA IgM (STAR87...)
- Rabbit Anti Mouse IgG (STAR12...)
- Rabbit Anti Mouse IgG (STAR13...)
- Goat Anti Mouse IgG (Fc) (STAR120...)
- Goat Anti Mouse IgG (H/L) (STAR117...)
- Goat Anti Mouse IgG (STAR70...)

**Related Products**

**Recommended Secondary Antibodies**

- **DyLight®800**
- **RPE**
- **HRP**
- **FITC**
- **FITC**
- **HRP**
- **RPE**
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For research purposes only


Regulatory

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