Datasheet: MCA1738

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN CD31</th>
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<tbody>
<tr>
<td>Specificity:</td>
<td>CD31</td>
</tr>
<tr>
<td>Other names:</td>
<td>PECAM-1</td>
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<tr>
<td>Format:</td>
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<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>WM59</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.2 mg</td>
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</table>

**Product Details**

**Applications**

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>-</td>
<td></td>
<td></td>
<td>1/50 - 1/100</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
<td>-</td>
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</table>

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).

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: Cynomolgus monkey, 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**

0.09% Sodium Azide

**Approx. Protein Concentrations**

IgG concentration 1.0mg/ml
**External Database Links**
- UniProt: P16284  Related reagents
- Entrez Gene: 5175  PECAM1  Related reagents

**Specificity**
Mouse anti Human CD31 monoclonal antibody, clone WM59 recognizes the human CD31 antigen, a ~130 kDa single pass type I transmembrane glycoprotein bearing six C2 immunoglobulin domains. CD31 is expressed by all continuous endothelia including arteries, veins and non-sinusoidal capillaries, platelets, granulocytes and some lymphocytes. CD31 is not expressed by discontinuous endothelia such as hepatic sinusoids and splenic red pulp (Muller et al. 1989). CD31 is also known as PECAM-1.

The binding epitope for mouse anti human CD31, clone WM59 has been mapped to the Ig-like domain 2 (Fawcett et al. 1995).  

**Flow Cytometry**
Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul.

**References**

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

Regulatory
For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR13...) HRP
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Goat Anti Mouse IgG (STAR76...) RPE
Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Human Anti Mouse IgG1 (HCA036...) HRP
Goat Anti Mouse IgG (STAR70...) **FITC**
Rabbit Anti Mouse IgG (STAR9...) **FITC**
Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL (MCA928)**

<table>
<thead>
<tr>
<th>Region</th>
<th>Tel</th>
<th>Fax</th>
<th>Email</th>
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<tbody>
<tr>
<td>North &amp; South America</td>
<td>+1 800 265 7376</td>
<td>+1 919 878 3751</td>
<td><a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a></td>
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<tr>
<td>Worldwide</td>
<td>Tel: +44 (0)1865 852 700</td>
<td>Fax: +44 (0)1865 852 739</td>
<td>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a></td>
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<td>Europe</td>
<td>Tel: +49 (0) 89 8090 95 21</td>
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