Datasheet: MCA1746F

Description: MOUSE ANTI PIG CD31:FITC

Specificity: CD31

Other names: PECAM-1

Format: FITC

Product Type: Monoclonal Antibody

Clone: LCI-4

Isotype: IgG1

Quantity: 0.1 mg

RRID AB_323951

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.

<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>
<td></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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species: Pig

Species Cross Reactivity: Reacts with: Human

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>
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<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 A 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

Immunogen: Porcine CD31/human IgGFc fusion protein.
**Specificity**

Mouse anti Pig CD31, clone LCI-4 recognizes porcine CD31, also known as Platelet endothelial cell adhesion molecule (PECAM-1). CD31 is constitutively expressed by platelets, monocytes and some lymphocytes, it is expressed by endothelial cells at a level, an order of magnitude greater that of other cell types (Fawcett *et al.* 1995). The extracellular region contains six Ig-like domains. Mouse anti Pig CD31, clone LCI-4 is cross reactive with human CD31 and binds to the $5^{th}$ extracellular Ig domain, proximal to the transmembrane region as demonstrated by human CD31 domain deletion mutant protein binding studies (Nasu *et al.* 1999).

Mouse anti Pig CD31, clone LCI-4 immunoprecipitates a protein of ~130 kDa from lysates of porcine aortic endothelial cells and is strongly expressed at cell junctions (Nasu *et al.* 1999).

**Flow Cytometry**

Use 10ul of the suggested working dilution to label $10^6$ cells or 100ul whole blood.

**References**


**Further Reading**

**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. 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.
Related Products

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)**

<table>
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<tr>
<th>Region</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>+44 (0)1865 852 700</td>
<td>+44 (0)1865 852 739</td>
<td><a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a></td>
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<tr>
<td>Europe</td>
<td>+49 (0) 89 8090 95 21</td>
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