Datasheet: MCA1777S

Description: MOUSE ANTI DOG CD11b

Specificity: CD11b

Other names: INTEGRIN ALPHA M CHAIN, MAC-1

Format: S/N

Product Type: Monoclonal Antibody

Clone: CA16.3E10

Isotype: IgG1

Quantity: 2 ml

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.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>
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<td>Neat</td>
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<tr>
<td>Immunohistology - Frozen (1)</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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<td>Western Blotting</td>
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</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 recommended dilutions are given as guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species: Dog

Species Cross Reactivity: Reacts with: Goat, Cat, Mustelid, Pig, Bovine, Mink, Beluga whale

N.B. Antibody reactivity and working conditions may vary between species.

Product Form: Tissue Culture Supernatant - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.1% Sodium Azide

Immunogen: Affinity purified beta-2 integrins from splenic lysate

Specificity: Mouse anti Dog CD11b antibody, clone CA16.3E10 is a monoclonal antibody recognising the
canine CD11b cell surface antigen, a member of the alpha integrin family. CD11b forms one of the possible alpha chains of the canine leukocyte adhesion complexes (LeuCAMs), these contain a common 95 kDa β chain (CD18) non-covalently bound to either a 150 kDa (CD11c), 165 kDa (CD11b) or 180 kDa (CD11a) α chain (Moore et al. 1990). The CD11/CD18 complex is also known as the CR3 receptor.

Canine CD11b is expressed by granulocytes, monocytes, NK cells and some macrophages. Mouse anti Dog CD11b (CA16.3E10) has been used to evaluate the effect of anaesthetic administration of CD11b expression on canine neutrophils (Maeda et al. 2010) demonstrating attenuation of CD11b expression at high concentrations administered lidocaine hydrochloride and reduced adhesion of neutrophils to endothelium.

**Flow Cytometry**

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

**References**


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**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 Information**

Material Safety Datasheet documentation available at:


**Regulatory**

For research purposes only

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**Recommended Products**

**Recommended Secondary Antibodies**

<table>
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<tr>
<th>Antibody Description</th>
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<tr>
<td>Goat Anti Mouse IgG (STAR76...)</td>
<td><strong>RPE</strong></td>
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<tr>
<td>Goat Anti Mouse IgG IgA IgM (STAR87...)</td>
<td><strong>Alik. Phos.</strong>, <strong>HRP</strong></td>
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<tr>
<td>Goat Anti Mouse IgG (H/L) (STAR117...)</td>
<td><strong>Alik. Phos.</strong>, <strong>DyLight®488</strong>, <strong>DyLight®549</strong>, <strong>DyLight®649</strong>, <strong>DyLight®680</strong>, <strong>DyLight®800</strong>, <strong>FITC</strong>, <strong>HRP</strong></td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR9...)</td>
<td><strong>FITC</strong></td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (STAR77...)</td>
<td><strong>HRP</strong></td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR12...)</td>
<td><strong>RPE</strong></td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (Fc) (STAR120...)</td>
<td><strong>FITC</strong>, <strong>HRP</strong></td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR8...)</td>
<td><strong>DyLight®800</strong></td>
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<tr>
<td>Goat Anti Mouse IgG (STAR70...)</td>
<td><strong>FITC</strong></td>
</tr>
<tr>
<td>Human Anti Mouse IgG1 (HCA036...)</td>
<td><strong>HRP</strong></td>
</tr>
<tr>
<td>Rabbit Anti Mouse IgG (STAR13...)</td>
<td><strong>HRP</strong></td>
</tr>
</tbody>
</table>

**Recommended Negative Controls**

- **MOUSE IgG1 NEGATIVE CONTROL (MCA928)**