Datasheet: MCA1899F

Description: MOUSE ANTI HORSE PAN B-CELLS:FITC
Specificity: PAN B-CELLS
Format: FITC
Product Type: Monoclonal Antibody
Clone: CVS36
Isotype: IgG1
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.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>
</tr>
<tr>
<td>Immunofluorescence</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species: Horse

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>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
</tr>
</tbody>
</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 (NaN₃) 1% Bovine Serum Albumin

Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

Immunogen: Purified Equine Ig.

Fusion Partners: Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.

Specificity: Mouse anti Horse Pan B-Cells, clone CVS36 is a monoclonal antibody directed against equine Ig
light chains. Characterization studies demonstrated that clone CVS36 bound 100% of CD5-ve peripheral blood lymphocytes and recognized all equine B-cells (Lunn et al. 1998) As the antigen recognized by clone CVS36 appears to be present on the surface of all equine B-cells it is therefore a reagent that can be used as a pan B-cell marker for domestic horses (Breathnach et al. 2005).

Specific anti equine reagents have yet to be fully characterized for the typically recognized B-cell makers such as CD19, CD20, CD21, CD22 and CD79. While testing has demonstrated the cross reactivity of some monoclonal B-cell markers raised against other species with equine B cells, such as the Mouse anti Human CD79a antibody, (clone HM57), an overview of which may be found in the report of the second equine leucocyte antigen workshop (Lunn et al. 1998).

With specificity for equine Ig light chains, clone CVS36 may be used to detect all equine immunoglobulin classes and subclasses in ELISA applications (Lunn et al. 1998).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul

References


Further Reading


Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted.

Guarantee

18 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

Regulatory

For research purposes only

Recommended Products

Recommended Useful Reagents

MOUSE ANTI HORSE PAN B-CELLS (MCA1899GA)
MOUSE ANTI HORSE PAN B-CELLS:RPE (MCA1899PE)