Datasheet: MCA1084F

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI HORSE CD13:FITC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>CD13</td>
</tr>
<tr>
<td>Other names</td>
<td>AMINOPEPTIDASE N</td>
</tr>
<tr>
<td>Format</td>
<td>FITC</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>CVS19</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

### 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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Applications</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 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

Horse

#### Product Form

Purified IgG conjugated to Fluorescin 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

#### 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

Equine leucocytes.

#### Fusion Partners

Spleen cells from immunised mice were fused with cells of the mouse X63-Ag8.653 myeloma cell line.
### Specificity

**Mouse anti Horse CD13 antibody, clone CVS19** recognizes the equine CD13 cell surface antigen, also known as Aminopeptidase N, a single-pass type II membrane protein belonging to the peptidase N family with a molecular weight of between 150 - 170 kDa.

CD13 is widely expressed by a range of cell types including all blood neutrophils, basophils, monocytes, fibroblasts, kidney epithelial cells, endothelial cells and mesenchymal stem cells, but not by T or B cells. It is involved in a broad spectrum of biological processes and is believed to be linked to a number of disease states including tumor invasion (Saiki et al. 1993).

Mouse anti Horse CD13 antibody, clone CVS19 may be used for differentiating myeloid and lymphoid lineage cells in tumors of the haematopoietic system.

In addition to clone CVS19, other CVS clones recognising equine MHC and cell surface antigens are available.

### 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.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. 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.

### Health And Safety Information


### Regulatory

For research purposes only