## Datasheet: MCA2312GA

### Product Details

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI PIG CD172a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>CD172a</td>
</tr>
<tr>
<td>Other names</td>
<td>SWC3</td>
</tr>
<tr>
<td>Format</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>BL1H7</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

### 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>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>1/10 - 1/20</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting (2)</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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

1. **This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**
2. **Clone BL1H7 recognizes porcine CD172a under non-reducing conditions.**

### Target Species

Pig

### 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 (NaN₃)

### Carrier Free

Yes

### Approx. Protein Concentrations

IgG concentration 1.0 mg/ml
Immunogen

Porcine alveolar macrophages.

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

Specificity

**Mouse anti Pig CD172a, clone BL1H7** is specific for porcine CD172a, a member of the signal regulatory protein (SIRP) family (Alvarez et al. 2000). Mouse anti Pig CD172a, clone BL1H7 was originally clustered as SWC3 at the Third International Swine Cluster of Differentiation Workshop (Haverson et al. 2001; Thacker et al. 2001). CD172a is expressed on monocyte derived dendritic cells (MoDCs) (Facci et al. 2010) and conventional (cDCs), plasmacytoid (pDCs) DCs and blood DCs. (Facci; Jeong et al. 2010). Mouse anti Pig CD172a, clone BL1H7 immunoprecipitates a single band of ~90-110 kDa from preparations of biotinylated alveolar macrophages, a result confirmed by Western blotting analysis of alveolar macrophage lysates under non reducing conditions (Alvarez et al. 2000).

Mouse anti Pig CD172a, clone BL1H7 has proved a useful and reliable tool for immunohistochemical analysis of routinely processed, formalin fixed, paraffin embedded porcine tissues (Domenech et al. 2003).

Aberrant expression of CD172a has been noted on porcine leukemias (Sipos et al. 2006) with blast cells co-expressing lymphocytic markers CD5 and CD25 whilst expressing the Myeloid marker CD172a in a **bi-phenotypic pattern** as opposed to the more characteristic **single population** of CD172+ cells seen in normal blood PBMC (Chamorro et al. 2005).

Flow Cytometry

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

Histology Positive Control Tissue

Porcine spleen.

Western Blotting

MCA2312GA detects a band of approximately 90-115 kDa in alveolar macrophage lysates.

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. 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

Regulatory
For research purposes only

Related Products

Recommended Secondary Antibodies

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

**Recommended Negative Controls**  

**MOUSE IgG1 NEGATIVE CONTROL (MCA928)**

<table>
<thead>
<tr>
<th></th>
<th>North &amp; South</th>
<th>America</th>
<th>Tel: +1 800 265 7376</th>
<th>Fax: +1 919 878 3751</th>
<th>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Worldwide</td>
<td></td>
<td></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>
</tr>
<tr>
<td>Europe</td>
<td></td>
<td></td>
<td>Tel: +49 (0) 89 8090 95 21</td>
<td>Fax: +49 (0) 89 8090 95 50</td>
<td>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a></td>
</tr>
</tbody>
</table>

'0318539:180718'

**Printed on 23 Oct 2018**

© 2018 Bio-Rad Laboratories Inc  |  [Legal](#)  |  [Imprint](#)