Datasheet: MCA2312GA

Description: MOUSE ANTI PIG CD172a
Specificity: CD172a
Other names: SWC3
Format: Purified
Product Type: Monoclonal Antibody
Clone: BL1H7
Isotype: IgG1
Quantity: 0.1 mg

Product Details

Applications

<table>
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<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin (1)</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.

(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) also 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.

### Guarantee

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...) [FITC](#)
- Goat Anti Mouse IgG (STAR76...) [FITC, HRP](#)
Rabbit Anti Mouse IgG (STAR9...)  FITC
Goat Anti Mouse IgG (H/L) (STAR117...)  Alk. Phos., DyLight®488, DyLight®549,
DyLight®649, DyLight®680, DyLight®800,
FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)