Datasheet: MCA1218GA

Description: MOUSE ANTI PIG CD14
Specificity: CD14
Format: Purified
Product Type: Monoclonal Antibody
Clone: MIL2
Isotype: IgG2b
Quantity: 0.1 mg

Product Details

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.

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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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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>1/25 - 1/200</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>Western Blotting</td>
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<td>Immunofluorescence</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. 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: Pig

Species Cross Reactivity: Reacts with: Human

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

Product Form: Purified IgG - liquid

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)

Carrier Free: Yes

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml
Immunogen

Porcine peripheral blood lymphocytes.

External Database Links

UniProt:

A2SW51

Related reagents

Fusion Partners

Spleen cells from immunized Balb/c mice were fused with cells from the P2-X63-Ag.653 mouse myeloma.

Specificity

Mouse anti Pig CD14, clone MIL2 recognizes porcine CD14. Clone MIL2 was clustered as porcine CD14 at the Third International Workshop on Swine Leukocyte Differentiation Antigens (Haverson et al. 2001). Mouse anti Pig CD14, clone MIL2 immunoprecipitates a protein of ~50 kDa consistent with the expected apparent molecular weight of porcine CD14, and demonstrates the expected CD14 profile by dual labelling and competition studies. Further, pre-incubation of peripheral blood monocytes with MIL2 inhibits the binding of FITC labelled LPS, consistent with masking the CD14 LPS binding site (Thacker et al. 2001).

Mouse anti pig CD14, clone MIL2 demonstrates staining of both monocytes and neutrophils in peripheral blood by flow cytometry with a similar expression pattern to the anti human CD14 clone TüK4, lymphocytes and eosinophils are negative for MIL2 staining (Zelnickova et al. 2007). Cloning and characterization of porcine CD14 indicates a high degree of both functional and structural conservation when compared to CD14 from other mammalian species, the gene maps to chromosome 2 and is expressed on a wide range of tissues in a manner consistent with expression on myeloid cells. (Petersen et al. 2007, Sanz et al. 2007).

Flow Cytometry

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

References


**Further Reading**


**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.

**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...) [HRP]
- Goat Anti Mouse IgG (STAR76...) [RPE]
- Goat Anti Mouse IgG (STAR70...) [FITC]
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC, HRP]
- Rabbit Anti Mouse IgG (STAR9...) [FITC]
- Human Anti Mouse IgG2b (HCA038...) [FITC]
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP]

**Recommended Negative Controls**

- MOUSE IgG2b NEGATIVE CONTROL (MCA691)