

Datasheet: MCA6014PE

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|----------------------|---------------------------|
| Description: | MOUSE ANTI HUMAN CD68:RPE |
| Specificity: | CD68 |
| Format: | RPE |
| Product Type: | Monoclonal Antibody |
| Clone: | Y1/82A |
| Isotype: | IgG2b |
| Quantity: | 100 TESTS |

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.

| | Yes | No | Not Determined | Suggested Dilution |
|--------------------|-----|----|----------------|--------------------|
| Flow Cytometry (1) | ▪ | | | Neat |

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.

(1) **Membrane permeabilization is required for this application. Bio-Rad recommends the use of Leucoperm (BUF09) for this purpose.**

| | | | |
|------------------------|---|----------------------------|--------------------------|
| Target Species | Human | | |
| Product Form | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized | | |
| Reconstitution | Reconstitute with 1.0 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
| | RPE 488nm laser | 496 | 578 |
| | RPE 561nm laser | 546 | 578 |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% Sodium Azide (NaN ₃) | | |
| Stabilisers | 1% Bovine Serum Albumin 5% Sucrose | | |
| Immunogen | Phytohaemagglutinin stimulated peripheral blood mononuclear cells. | | |

**External Database
Links**

UniProt:

[P34810](#) [Related reagents](#)

Entrez Gene:

[968](#) CD68 [Related reagents](#)

Fusion Partners Spleen cells from immunized Balb/c mice were fused with cells of the murine NS1 myeloma.

Specificity **Mouse anti Human CD68 antibody, clone Y1/82A** recognizes the human CD68 cell surface antigen, a ~110 kDa glycoprotein primarily expressed by macrophages and monocytes.

Flow Cytometry Use 10 µl of the suggested working dilution to label 1x10⁶ cells in 100 µl. Membrane permeabilization is required for this application. Bio-Rad recommends the use of Leucoperm ([BUF09](#)) for this purpose

References

1. Micklem, K. *et al.* (1989) A human macrophage-associated antigen (CD68) detected by six different monoclonal antibodies. [Br J Haematol. 73 \(1\): 6-11.](#)
2. Pulford, K.A. *et al.* (1990) Distribution of the CD68 macrophage/myeloid associated antigen. [Int Immunol. 2 \(10\): 973-80.](#)
3. Holness, C.L. & Simmons, D.L. (1993) Molecular cloning of CD68, a human macrophage marker related to lysosomal glycoproteins. [Blood. 81 \(6\): 1607-13.](#)
4. Mahida, Y.R. *et al.* (1997) Migration of human intestinal lamina propria lymphocytes, macrophages and eosinophils following the loss of surface epithelial cells. [Clin Exp Immunol. 109 \(2\): 377-86.](#)

Storage Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.

Shelf Life 12 months from date of reconstitution

**Health And Safety
Information** Material Safety Datasheet documentation #10075 available at:
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:RPE \(MCA691PE\)](#)

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Printed on 05 May 2018