Datasheet: MCA341GA

Description: MOUSE ANTI RAT CD68
Specificity: CD68
Other names: ED1, MACROSIALIN
Format: Purified
Product Type: Monoclonal Antibody
Clone: ED1
Isotype: IgG1
Quantity: 0.1 mg

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.

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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry (1)</td>
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<td>1/50 - 1/100</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin (2)</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</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 control.

(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code BUF09) for this purpose.

(2) This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase

Target Species: Rat

Species Cross Reactivity:
Reacts with: Bovine
Does not react with: Horse

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 A from tissue culture supernatant

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.09% Sodium Azide
Carrier Free: Yes

Approx. Protein Concentrations: IgG concentration 0.5 mg/ml

Immunogen: Rat spleen cells

External Database Links: UniProt: Q4FZY1

Fusion Partners: Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0-Ag14 mouse myeloma cell line.

Specificity: Mouse anti rat CD68, clone ED1 recognizes the rat ED1 antigen, a heavily glycosylated protein of ~90 - 110 KDa, also known as rat CD68 (Dijkstra et al. 1985).

The ED1 antigen is expressed on most macrophages populations, as well as on monocytes and is considered as a pan-macrophage marker in the rat (Damoiseaux et al. 1994). ED1 is expressed predominantly on the lysosomal membrane and lightly on the cell surface (Dijkstra et al. 1985).

The expression of ED1 antigen being predominantly cytoplasmic (Dijkstra et al. 1985), flow cytometry results are improved by the use of a membrane permeabilization procedure, such as Leucoperm, prior to staining.

Flow Cytometry: Use 10μl of the suggested working dilution to label 10⁶ cells in 100μl.

Western Blotting: This clone is suitable for use in western blotting applications. Bio-Rad recommend MCA341R for this purpose.

References:
11. Liew, H.K. et al. (2012) Systemic administration of urocortin after intracerebral hemorrhage...
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.

Shelf Life

18 months from date of despatch.

Health And Safety Information


Regulatory

For research purposes only

Recommended Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Goat Anti Mouse IgG (STAR70...) FITC
Rabbit Anti Mouse IgG (STAR13...) HRP
Human Anti Mouse IgG1 (HCA036...) HRP
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 (MCA1209)