Datasheet: MCA342R

Product Details

Description: MOUSE ANTI RAT CD163
Specificity: CD163
Other names: ED2
Format: Purified
Product Type: Monoclonal Antibody
Clone: ED2
Isotype: IgG1
Quantity: 0.25 mg

Applications

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Immunohistology - Frozen</td>
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<td></td>
<td></td>
<td>1/50 - 1/100</td>
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<td>Immunohistology - Paraffin (1)</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</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.

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

Target Species

Rat

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 cell homogenate.

**Fusion Partners**  
Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0-Ag 14 mouse myeloma cell line.

**Specificity**  
Mouse anti Rat CD163, clone ED2 recognises the rat ED2 cell surface glycoprotein (Dijkstra et al., 1985). A 175 kDa molecule also known as rat CD163, a member of the group B scavenger receptor cysteine-rich (SRCR) family and an erythroblast adhesion receptor (Fabriek et al. 2007).

Mouse anti rat CD163, clone ED2 was shown to detect approximately 50% of peritoneal macrophages, a subset of splenic macrophages, and most tissue macrophages. However, no staining was observed in monocytes or alveolar macrophages (Dijkstra et al. 1985, Beelen et al. 1987). In freshly isolated bone marrow, expression of CD163 was limited to mature macrophages only (Barbe et al. 1990).

Clone ED2 may be used in immunohistology using antigen retrieval, and has also been described reacting with paraffin-embedded material following PLP fixation (Periodate-lysine-paraformaldehyde), see Whiteland et al.

**Flow Cytometry**  
Use 10ul of the suggested working dilution to label 10^6 cells in 100ul

**Histology Positive Control Tissue**  
Liver

**References**

19. Fuji, Y. et al. (2013) Effect of enzymatically modified isoquercitrin on preneoplastic liver cell lesions induced by thioacetamide promotion in a two-stage hepatocarcinogenesis model using rats. Toxicology. 305: 30-40.

**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...)  
  - Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
- Goat Anti Mouse IgG (H/L) (STAR117...)  
  - FITC, HRP

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)