### Description:
MOUSE ANTI RAT CD163

### Specificity:
CD163

### Other names:
ED2

### Format:
Purified

### Product Type:
Monoclonal Antibody

### Clone:
ED2

### 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

### Immunogen
Rat Spleen cell homogenate.

<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>Flow Cytometry</td>
<td>-</td>
<td></td>
<td></td>
<td>1/10 - 1/100</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<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>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**
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**


**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.
Recommended Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)