Datasheet: MCA5998

**Description:** RAT ANTI MOUSE CD16

**Specificity:** CD16

**Other names:** FcRIII

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** AT154-2

**Isotype:** IgG2b

**Quantity:** 0.25 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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>yes</td>
<td></td>
<td></td>
<td>1/10</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td>yes</td>
<td></td>
<td></td>
<td>1/100 - 1/1000</td>
</tr>
</tbody>
</table>

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.

#### Target Species

Mouse

#### Product Form

Purified IgG - liquid

#### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

#### Buffer Solution

TRIS buffered saline

#### Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

#### Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

#### Immunogen

HEK293F cell expressing CD16 and gamma chain

### External Database Links

**UniProt:**

[UniProt](https://www.uniprot.org/uniprot/P08508)  Related reagents

**Entrez Gene:**

[Entrez Gene](https://www.ncbi.nlm.nih.gov/gene/)  Fcgr3  Related reagents
Fusion Partners: Spleen cells from immunised rats were fused with cells of the NS-1 myeloma cell line.

Specificity: Rat anti Mouse CD16 antibody, clone AT154-2, recognizes CD16, also known as FcRIII. CD16 is a low affinity activatory receptor which interacts preferentially with mouse IgG1, IgG2a and IgG2b immune complexes and is involved in various effector functions including phagocytosis, NK antibody dependent cellular cytotoxicity and the release of inflammatory mediators.

In mice, CD16 is expressed on macrophages, NK cells, granulocytes, myeloid precursors and subpopulations of T lymphocytes.

Flow Cytometry: Use 10μl of the suggested working dilution to label 1x10^6 cells in 100μl.

References:

Storage: Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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


Regulatory: For research purposes only

Recommended Secondary Antibodies

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Fluorescent Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit Anti Rat IgG (STAR17...)</td>
<td>FITC</td>
</tr>
<tr>
<td>Goat Anti Rat IgG (STAR69...)</td>
<td>FITC</td>
</tr>
<tr>
<td>Goat Anti Rat IgG (STAR131...)</td>
<td>Alk. Phos., Biotin</td>
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<tr>
<td>Goat Anti Rat IgG (STAR73...)</td>
<td>RPE</td>
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<tr>
<td>Rabbit Anti Rat IgG (STAR21...)</td>
<td>HRP</td>
</tr>
<tr>
<td>Goat Anti Rat IgG (STAR72...)</td>
<td>HRP</td>
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<tr>
<td>Rabbit Anti Rat IgG (STAR16...)</td>
<td>DyLight®800</td>
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<tr>
<td>Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)</td>
<td>DyLight®800</td>
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</tbody>
</table>

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