

Datasheet: TZA074GA

**BATCH NUMBER 64702097**

|                      |                               |
|----------------------|-------------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD163        |
| <b>Specificity:</b>  | CD163                         |
| <b>Other names:</b>  | Hemoglobin scavenger receptor |
| <b>Format:</b>       | Purified                      |
| <b>Product Type:</b> | Monoclonal Antibody           |
| <b>Clone:</b>        | rAB04                         |
| <b>Isotype:</b>      | IgG1                          |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪   |    |                |                    |

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.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Product Form</b>             | Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain – liquid |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant       |
| <b>Source</b>                   | CHO cells   |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Approx. Protein</b>          | IgG concentration 1.0 mg/ml   |

## Concentrations

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**Immunogen** Recombinant CD163 Gly46-Ser1050 expressed by mouse myeloma cell line, NS0

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## External Database Links

**UniProt:**

[Q86VB7](#) [Related reagents](#)

**Entrez Gene:**

[9332](#) CD163 [Related reagents](#)

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**Synonyms** M130

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## Specificity

**Mouse anti Human CD163 antibody, clone rAB04**, is a recombinant monoclonal antibody that recognizes CD163, also known as hemoglobin scavenger receptor or scavenger receptor cysteine-rich type 1 protein M130.

CD163 is a high affinity scavenger receptor for the haptoglobin-hemoglobin (Hp-Hb) complex, expressed by tissue resident macrophages and circulating blood monocytes. It consists of a single transmembrane domain, a short cytoplasmic tail and a large extracellular region containing nine scavenger receptor cysteine-rich (SRCR) domains. CD163 is involved in the removal of the Hp-Hb complex through macrophage endocytosis and therefore aids in protection from free hemoglobin-mediated oxidative damage. A soluble form of CD163 is generated by enzymatic cleavage of membrane-bound CD163 and is thought to have an anti-inflammatory role.

CD163 is considered a classical M2 macrophage marker. It is upregulated when macrophages switch to alternative activated phenotypes in inflammation. The soluble form of CD163 is being investigated as a diagnostic tool for macrophage activation in inflammatory conditions such as atherosclerosis.

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## Flow Cytometry

Use 5µl of the suggested working dilution to label  $0.5 \times 10^6$  cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

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## Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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## Guarantee

12 months from date of despatch

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## Acknowledgements

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See [bio-rad.com/en-us/trademarks](http://bio-rad.com/en-us/trademarks) for details.

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## Health And Safety Information

Material Safety Datasheet documentation #10040 available at:

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M446704:260109'

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