

Datasheet: TZA074GA

Description:	MOUSE ANTI HUMAN CD163
Specificity:	CD163
Other names:	Hemoglobin scavenger receptor
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rAB04
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.

	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.

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

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

External Database

Links

UniProt:

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

Entrez Gene:

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

Synonyms

M130

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.

Flow Cytometry

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

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.

Guarantee

12 months from date of despatch

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 for details.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/TZA074GA>

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

Product inquiries: 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

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