

Datasheet: TZA0134GA

BATCH NUMBER 64749183

Description:	MOUSE ANTI HUMAN CD138
Specificity:	CD138
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rB18-02-5H10
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	Mammalian cells transfected with full length CD138
External Database Links	UniProt: P18827 Related reagents Entrez Gene: 6382 SDC1 Related reagents
Synonyms	SDC
Specificity	Mouse anti Human CD138 antibody, clone rB18-02-5H10, is a recombinant monoclonal antibody that recognizes CD138, also known as Syndecan-1 or SDC-1. CD138 is a member of the transmembrane heparan sulfate proteoglycan family. It is composed of a core protein covalently attached to heparan sulfate and chondroitin sulfate chains. CD138 is expressed on the surface of plasma cells within the hematopoietic system and on the surface of mature epithelial cells. CD138 acts as an extracellular matrix receptor, involved in many cellular functions, including cell binding, cell signaling and cytoskeletal organization through cell-cell adhesion and cell-matrix adhesion. It can bind to numerous proteins, including integrins and extracellular matrix components. CD138 is also involved in regulating exosome biogenesis, alongside SDCBP and PDCD6IP. The extracellular domain is proteolytically cleaved in a shedding process and deposited in the extracellular matrix where it exerts autocrine and paracrine effects. The CD138 marker is used in flow cytometry to identify normal or malignant plasma cells. CD138 is upregulated in malignant plasma cells and has a causal role in the progression of multiple myeloma (MM). CD138 expression level correlates with MM disease severity and is used as an index of the effectiveness of the treatment regimen.
Flow Cytometry	Use 5µl of the suggested working dilution to label 0.5x10 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/TZA0134GA

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 (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
Rabbit Anti Mouse IgG (STAR12...)	RPE

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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