Datasheet: TZA0168GA

Description:	MOUSE ANTI HUMAN CD38
Specificity:	CD38
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rD37-07/5C12
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 CD38, aa 1-300 expressed by mammalian cells

External Database Links	**UniProt:** P28907 Related reagents **Entrez Gene:** 952 CD38 Related reagents
Specificity	**Mouse anti Human CD38 antibody, clone rD37-07/5C12**, is a recombinant monoclonal antibody that recognizes CD38, also known as T10 or DP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1. CD38 is a single chain glycoprotein and multi-functional ecto enzyme that metabolizes extracellular nicotinamide nucleotides. CD38 is predominantly expressed in hematopoietic cells in response to stimulation, with high expression in B cells, macrophages, dendritic cells, natural killer cells, T cells, neutrophils, monocytes and innate lymphoid cells. Whilst CD38 is mainly expressed at the cell surface, a small portion of CD38 is expressed in intracellular compartments such as the nucleus and endoplasmic reticulum. In addition to its enzymatic function, CD38 acts as a receptor to CD31. CD38 has roles in cell differentiation, cell recruitment, cytokine release and NAD availability. CD38 is considered a marker to aid in the identification of plasma cells and is highly expressed in multiple myeloma. Metabolism of extracellular nicotinamide nucleotides by CD38 has implications in inflammation, infection, metabolic dysfunction, aging and tumor biology. CD38 is considered a potential therapeutic target in infection, aging, and tumorigenesis.
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/TZA0168GA
Regulatory	For research purposes only

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
Rabbit Anti Mouse IgG (STAR12...)	RPE
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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