

Datasheet: TZA062SBB580

Description:	MOUSE ANTI HUMAN CD56:StarBright Blue 580
Specificity:	CD56
Other names:	NCAM-1
Format:	StarBright Blue 580
Product Type:	Monoclonal Antibody
Clone:	rAB03-1H8
Isotype:	IgG1
Quantity:	100 TESTS/0.5ml

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 (1)	▪			Neat

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.

(1) Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.

Target Species	Human		
Product Form	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain and conjugated to StarBright Blue 580 – liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Blue 580	475	582
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) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.
Immunogen	Recombinant CD56 Leu20-Ala708 expressed by mammalian cells
External Database Links	UniProt: P13591 Related reagents Entrez Gene: 4684 NCAM1 Related reagents
Synonyms	NCAM
Specificity	Mouse anti Human CD56 antibody, clone rAB03-1H8, is a recombinant monoclonal antibody that recognizes CD56, also known as human neural cell adhesion molecule (NCAM). CD56 is a cell surface glycoprotein of the immunoglobulin superfamily. In the human hematopoietic system, CD56 is expressed on natural killer (NK) cells, alpha beta T cells, gamma delta T cells, dendritic cells and monocytes. As the name suggests, it is also expressed by cells of neuronal lineage. Three main isoforms of CD56 exist that differ in the intracellular domain. In NK cells, CD56 has been shown to act as a pathogen recognition receptor, promote cytotoxicity and stimulate exocytosis. In neuronal tissues, CD56 mediates homophilic and heterophilic adhesion, and is implicated in neural development, cell migration and synaptic plasticity. CD56 is considered a classical surface marker of NK cells, which are usually divided into two subsets, CD56^{dim} and CD56^{bright}. NK cells in peripheral blood are predominantly CD56^{dim}, whilst CD56^{bright} NK cells are more prevalent in tissues. Expression of CD56 by NK cells can be used as an activation marker. Aberrant CD56 expression is associated with a range of tumors and malignancies, including tumors of the lung, neural derived malignancies, and natural killer cell lymphomas.
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	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend

microcentrifugation before use.

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 for details. This product is covered by U.S Patent No. 10,150,841 and related U.S and foreign counterparts.
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Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/TZA062SBB580
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Regulatory	For research purposes only
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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](https://www.bio-rad-antibodies.com/datasheets)
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