

Datasheet: TZA062SBY800

**BATCH NUMBER 64685448**

<b>Description:</b>	MOUSE ANTI HUMAN CD56:StarBright Yellow 800
<b>Specificity:</b>	CD56
<b>Other names:</b>	NCAM-1
<b>Format:</b>	StarBright Yellow 800
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	rAB03-1H8
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			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.

<b>Target Species</b>	Human						
<b>Product Form</b>	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain and conjugated to StarBright Yellow 800 – liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>StarBright Yellow 800</td> <td>549</td> <td>788</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	StarBright Yellow 800	549	788
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
StarBright Yellow 800	549	788					
<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )						

<b>Stabilisers</b>	1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
<b>Approx. Protein Concentrations</b>	For information on the concentration of our StarBright Dye conjugated reagents please visit our <a href="#">FAQ</a> page.
<b>Immunogen</b>	Recombinant CD56 Leu20-Ala708 expressed by mammalian cells
<b>External Database Links</b>	<p><b>UniProt:</b> <a href="#">P13591</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b> <a href="#">4684</a>    NCAM1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	NCAM
<b>Specificity</b>	<p><b>Mouse anti Human CD56 antibody, clone rAB03-1H8</b>, is a recombinant monoclonal antibody that recognizes CD56, also known as human neural cell adhesion molecule (NCAM).</p> <p>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.</p> <p>CD56 is considered a classical surface marker of NK cells, which are usually divided into two subsets, CD56<sup>dim</sup> and CD56<sup>bright</sup>. NK cells in peripheral blood are predominantly CD56<sup>dim</sup>, whilst CD56<sup>bright</sup> 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.</p>
<b>Flow Cytometry</b>	Use 5µl of the suggested working dilution to label 0.5x10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.
<b>Storage</b>	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.
<b>Guarantee</b>	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](http://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/TZA062SBY800>

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**Regulatory** For research purposes only

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**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)  
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