

Datasheet: MCA2693A488

BATCH NUMBER 171869

Description:	MOUSE ANTI HUMAN CD56:Alexa Fluor® 488
Specificity:	CD56
Other names:	NCAM-1
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	123C3
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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	▪			Neat - 1/10

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 the appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Does not react with:Rat
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
--------------------	---

Buffer Solution	Phosphate buffered saline
------------------------	---------------------------

Preservative	0.09% Sodium Azide (NaN ₃)
---------------------	--

Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05mg/ml
Immunogen	Membrane preparation of small lung carcinoma.
External Database Links	<p>UniProt: P13591 Related reagents</p> <p>Entrez Gene: 4684 NCAM1 Related reagents</p>
Synonyms	NCAM
RRID	AB_915196
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the murine Sp2/0 myeloma cell line.
Specificity	<p>Mouse anti Human CD56 antibody, clone 123C3 recognizes human neural cell adhesion molecule (NCAM), otherwise known as CD56. The CD56 molecule is a cell surface glycoprotein expressed on neuroendocrine cells, natural killer cells and a subset of T cells in the peripheral blood. Three main isoforms of CD56 exist. Neurons express the largest 180 kDa form, while hemopoietic cells express the 140 kDa isoform. Mouse anti Human CD56 antibody, clone 123C3 recognizes both the 140 kDa and the 180 kDa isoform of the CD56 protein.</p> <p>In neuronal tissues, CD56 mediates homophilic and heterophilic adhesion and is implicated in neural development. CD56 is also expressed on thyroid follicular epithelium and may play a role in autoimmune disease of the thyroid. CD56 is expressed in a range of tumors including tumors of the lung, neural derived malignancies and natural killer cell lymphomas.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none"> Schol, D.J. <i>et al.</i> (1988) Monoclonal antibody 123C3, identifying small cell carcinoma phenotype in lung tumours, recognizes mainly, but not exclusively, endocrine and neuron-supporting normal tissues. Int J Cancer Suppl. 2: 34-40. Mooi, W.J. <i>et al.</i> (1988) Monoclonal antibody 123C3 in lung tumour classification. Immunohistology of 358 resected lung tumours. Mol Cell Probes. 2 (1): 31-7. Moolenaar, C.E. <i>et al.</i> (1990) Expression of neural cell adhesion molecule-related sialoglycoprotein in small cell lung cancer and neuroblastoma cell lines H69 and CHP-212. Cancer Res. 50 (4): 1102-6. Aloysius, M.M. <i>et al.</i> (2010) Mucins and CD56 as markers of tumour invasion and prognosis in periampullary cancer. Br J Surg. 97: 1269-78 Wanka, G. <i>et al.</i> (2020) LDOC1 as Negative Prognostic Marker for Vulvar Cancer

Patients. [Int J Mol Sci. 21 \(23\) Dec 05 \[Epub ahead of print\]](#).

6. Heylmann, D. *et al.* (2021) Comparison of DNA repair and radiosensitivity of different blood cell populations. [Sci Rep. 11 \(1\): 2478.](#)

7. Cabioglu, N. *et al.* (2025) The Prognostic and Therapeutic Significance of T-Helper-1 Cell Response in Patients with Severe Systemic Inflammatory Response or Sepsis [Archives of Clinical and Biomedical Research.9 \(5\): 403-411.](#)

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. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

Acknowledgements This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2693A488>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA928A488\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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
'M426744:240227'

Printed on 19 May 2026
