

Datasheet: MCA2693A647T

BATCH NUMBER 150671

Description:	MOUSE ANTI HUMAN CD56:Alexa Fluor® 647
Specificity:	CD56
Other names:	N-CAM
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	123C3
Isotype:	IgG1
Quantity:	25 TESTS/0.25ml

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 - 1/5

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		
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin		
Approx. Protein	IgG concentration 0.05mg/ml		

Concentrations

Immunogen Membrane preparation of small lung carcinoma.

External Database Links

UniProt:

[P13591](#) [Related reagents](#)

Entrez Gene:

[4684](#) NCAM1 [Related reagents](#)

Synonyms NCAM

RRID AB_1102206

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the murine Sp2/0 myeloma cell line.

Specificity **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 which is 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.

In neuronal tissues, CD56 mediates homophilic and heterophilic adhesion and is implicated in neural development. Studies suggest that 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 tumours including tumours of the lung, neural derived malignancies and natural killer cell lymphomas.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

- Schol, D.J. *et al.* (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. *et al.* (1988) Monoclonal antibody 123C3 in lung tumour classification. Immunohistology of 358 resected lung tumours. [Mol Cell Probes. 2 \(1\): 31-7.](#)
 - Moolenaar, C.E. *et al.* (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. *et al.* (2010) Mucins and CD56 as markers of tumour invasion and prognosis in periampullary cancer. [Br J Surg. 97: 1269-78](#)
 - Wanka, G. *et al.* (2020) LDOC1 as Negative Prognostic Marker for Vulvar Cancer Patients. [Int J Mol Sci. 21 \(23\) Dec 05 \[Epub ahead of print\].](#)
 - Heylmann, D. *et al.* (2021) Comparison of DNA repair and radiosensitivity of different blood cell populations. [Sci Rep. 11 \(1\): 2478.](#)
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Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2693A647T>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Recommended Useful Reagents

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

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

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