

## Acris Antibodies, Inc.

6815 Flanders Drive, Suite 140 San Diego, CA 92121 UNITED STATES Phone: +1-858-888-7900 Fax: +1-858-888-7904 US-info@acris-antibodies.com AM05639FC-N

Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

## **Monoclonal Antibody to CD56 - FITC**

Alternate names:	N-CAM-1, NCAM, NCAM-1, Neural cell adhesion molecule 1
Catalog No.:	AM05639FC-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	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 180kD form, while haemopoietic cells express the 140kD isoform. Antibodies produced by clone 123C3 recognise the 140 and 180kD isoforms 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.
Uniprot ID:	<u>P13591</u>
NCBI:	<u>NP_000606.3</u>
GenelD:	<u>4684</u>
Host / Isotype:	Mouse / IgG1
Clone:	123C3
Immunogen:	Small cell lung carcinoma
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 Preservatives: 0.09% Sodium Azide Stabilizers: 1% BSA Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	<b>Flow Cytometry:</b> Use 10 $\mu$ l of Neat-1/10 diluted antibody to label 1x10 <sup>6</sup> cells in 100 $\mu$ l. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises neural cell adhesion molecule (NCAM), otherwise known as CD56. <b>Species:</b> Human. Other species not tested.

**For research and in vitro use only. Not for diagnostic or therapeutic work.** Material Safety Datasheets are available at www.acris-antibodies.com or on request.



1/2



## AM05639FC-N: Monoclonal Antibody to CD56 - FITC

Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
	This product is photosensitive and should be preotected from light.
	Avoid repeated freezing and thawing.
	Shelf life: one year from despatch.

General Readings: 1. Moolenaar CE, Muller EJ, Schol DJ, Figdor CG, Bock E, Bitter-Suermann D, et al. Expression of neural cell adhesion molecule-related sialoglycoprotein in small cell lung cancer and neuroblastoma cell lines H69 and CHP-212. Cancer Res. 1990 Feb 15:50(4):1102-6. PubMed PMID: 2153450.

2. Schol DJ, Mooi WJ, van der Gugten AA, Wagenaar SS, Hilgers J. 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. 1988;2:34-40. PubMed PMID: 2832332.

3. Mooi WJ, Wagenaar SS, Schol D, Hilgers J. Monoclonal antibody 123C3 in lung tumour classification. Immunohistology of 358 resected lung tumours. Mol Cell Probes. 1988 Mar;2(1):31-7. PubMed PMID: 2837665.

Pictures: Staining of hamster peripheral blood lymphocytes with MOUSE ANTI HUMAN CD56: FITC(AM05639FC-N).



