

## Product datasheet for **AM05639FC-N**

### CD56 (NCAM1) Mouse Monoclonal Antibody [Clone ID: 123C3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	123C3
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of Neat-1/10 diluted antibody to label 1x10 <sup>6</sup> cells in 100 µl.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Small cell lung carcinoma
Specificity:	This antibody recognises neural cell adhesion molecule (NCAM), otherwise known as CD56.
Formulation:	PBS, pH 7.4 Label: FITC State: Liquid purified IgG fraction Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide Label: Fluorescein Isothiocyanate Isomer 1 Absorption emission: 490 nm / 525 nm
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	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 preprotected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	neural cell adhesion molecule 1
Database Link:	<a href="#">Entrez Gene 4684 Human P13591</a>



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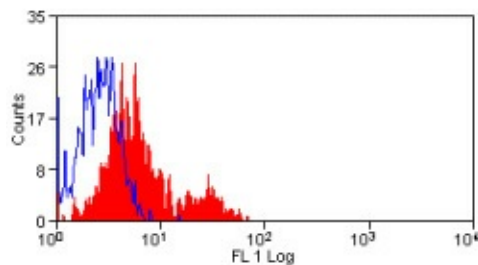
**Background:**

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.

**Synonyms:**

NCAM-1, N-CAM-1, NCAM

**Product images:**

Staining of hamster peripheral blood lymphocytes with MOUSE ANTI HUMAN CD56: FITC.