



## PRODUCT DATA SHEET

**Product:** Neural Cell Adhesion Molecule, clone 123C3

**Cat. No:** MC-740 (1 ml)

### Background:

The Neural Cell Adhesion Molecule is involved in intercellular adhesion and plays a role in outgrowth of neurites and the development of the nervous system. Several other isoforms have been identified which are expressed in a developmental and tissue specific pattern. Two major epitopes have been identified, NK-nb1-1 reacts with epitope 1 and 123C3 reacts with epitope 2. Most importantly, 123C3 can be used on routine formalin fixed paraffin section after retrieval. All cells in small cell carcinomas and carcinoids of the lung are strongly positive for 123C3. A minority of cases of other major types of lung carcinoma are sometimes positive as well: however this positivity is generally weak and focal. Adenoid cystic carcinomas of branchial glands are strongly positive. Neuroblastoma's and Wilms tumors are usually also staining strongly positive. In non small lung cell carcinomas, 123C3 staining has been associated with more advanced stage and a decreased survival after surgery. Positive haematopoietic cell populations. Although expression of CD56 is uncommon among lymphomas, this feature has defined a distinctive and important category of lymphoma: the putative natural killer (NK) cell lymphoma, which shows a predilection for the upper aerodigestive tract, skin, skeletal muscle, and other extranodal sites and pursues an aggressive clinical course. Furthermore, this antibody can be used to support diagnosis of lymphoma or to detect residual disease for cases of CD56 positive T/NK -cell lymphoma in which the neoplastic lymphoid cells are small and show minimal atypia, especially in small biopsies.

### Specificity:

This antibody recognizes a protein of transmembrane protein, which has been identified as Neural Cell Adhesion Molecule (NCAM).

### Species Reactivity:

Human, others not tested.

**Ig Isotype:** Murine IgG1

### Format:

1ml tissue culture supernatant containing 0.02% sodium azide.

### Storage and Stability:

Stable for 2 months when stored at 4°C. Stable for 1 year when stored at -20°C.

### Applications and Suggested Dilutions:

- Immunofluorescence: Recommend 1:5 to 1:20 dilution in PBS.
- Immunohistology: Frozen or formalin/paraffin fixed sections. [Note: Formalin/paraffin fixed sections should be pretreated in microwave or pressure cooker.]

The optimal dilution for a specific application should be determined by the researcher.

### Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

### Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.