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Hycult biotechnology

CD56/NCAM1, Clone 123C3, Human mAb

Catalog No.	HM2132	**Quantity:**	100 µg

Description: CD56 is an isoform of the Neural Cell Adhesion Molecule (NCAM). CD56 is an adhesion molecule involved in intercellular homophilic adhesion and plays a role in outgrowth of neurites and the development of the nervous system. Furthermore CD56 is a marker for natural killer cells and found in various tumors.
Several isoforms of NCAM have been identified: two transmembrane isoforms of 140 and 180 kD, a GPI-linked isoform of 120 kD which lacks a transmembrane domain and a fourth variant which is leading to the expression of a soluble form (sNCAM). Antibody 123C3 recognizes the transmembrane glycoprotein of 140 and 180 kD. At the international Workshop on SCLC antibody 123C3 has been categorized as cluster 1 antibody.
All cells in small cell carcinomas and carcinoids of the lung are strongly positive for 123C3. In non small lung cell carcinomas, 123C3 staining has been associated with more advanced stage and a decreased survival after surgery. Positive staining with other tumors, include medullary thyroid carcinomas and some ovarian tumors. 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.

Concentration: 100 µg/ml

Specificity: Human CD56/NCAM1

Host: Mouse

Isotype: IgG_1

Clone: 123C3

Formulation: 1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Applications The antibody can be used for immunofluorescence and immunohistology on frozen and paraffin sections.
For immunofluorescence and immunohistology dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10, formalin fixed paraffin sections should be pretreated in microwave or pressure cooker

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Storage & Stability: Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.

References:

1. Moolenaar, C 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, *50*: 1102
2. Kibbelaar, R et al; Neural cell adhesion molecule expression, neuroendocrine differentiation and prognosis in lung carcinoma. Eur J Cancer 1991, *27*: 431
3. Stahel, R et al; Third International Workshop on Lung Tumor and Differentiation Antigens: overview of the results of the central data analysis. Int J Cancer Suppl 1994, *8*: 6
4. Tsang, W et al; Utility of a paraffin section-reactive CD56 antibody (123C3) for characterization and diagnosis of lymphomas. Am J Surg Pathol 1996, *20*: 202

Also available:

HM2133: Monoclonal antibody against Human CD56, NCAM, clone NKI-nbl-1
HM4001: Monoclonal antibody against Human CD62-E, E-Selectin, clone ENA1
HM4003: Monoclonal antibody against Human CD62-E, E-Selectin, clone ENA2
HM4004: Monoclonal antibody against Human CD54, ICAM-1, clone HM.1
HM4006: Monoclonal antibody against Human CD106, VCAM-1, clone 1G11B1

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