CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	CD56, Human, clone 123C3		
Catalog number	HM2132-100UG		
Lot number	-	**Expiry date**	-
Volume	1 ml	**Amount**	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	**Concentration**	100 µg/ml
Host Species	Mouse IgG1	**Conjugate**	None
Endotoxin	N.A.	**Purification**	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	●	●	●					
No								
N.D.				●	●	●	●	●

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

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.
▪ IHC-P: formalin fixed paraffin sections should be pretreated in microwave or pressure cooker.

General Information

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.

Aliases Neural Cell Adhesion Molecule, NCAM

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

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

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC   Date
Brenda Teunissen   02/12/2019

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.

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