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| --- | --- |
| Clone | 123C3 |
| Source | Mouse Monoclonal |
| Cat #  | PM085-6ml RTUPM085-3ml RTU CM085-0.1ml ConcCM085-0.5ml Conc HAM085-6ml RTU HAM085-3ml RTU |
| Regulatory Status | IVD |

CD56 (123C3)

**Intended Use:**

This antibody is intended for use to qualitatively identify CD56 antigen by light microscopy in formalin fixed, paraffin embedded tissue sections using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient’s clinical history and other diagnostic tests. A qualified pathologist must perform evaluation of the test.

**Summary and Explanation:**

This antibody recognizes two proteins of the neural cell adhesion molecule (NCAM), the basic molecule expressed on most neuroectodermally derived cell lines, tissues and neoplasms.

This antibody is useful for the identification of natural killer (NK) cells, NK-like T cells, neural/neuroendocrine tissues and related neoplasms. The antibody labels NK cells and a subset of CD4+ and CD8+ T cells in peripheral blood. Outside the hematopoietic system, CD56 is expressed in a number of tumors, including neuroblastomas and small cell lung cancer (SCLC).

**Immunogen:**Membrane preparation of a small cell lung carcinoma (SCLC) (5).

**Isotype:** Mouse IgG1

**Reagent Provided:
 Concentrated format:** Antibody to CD56 is diluted in antibody diluent, with 1% bovine serum
 albumin (BSA) and 0.05% sodium azide (NaN3). Recommended dilutions: 1:50 –
 1:100.The antibody dilution and protocol may vary depending on the specimen
 preparation and specific application. Optimal conditions should be
 determined by individual laboratory.

**Pre-diluted format:** PathnSitu ready to use antibodies are pre tittered to optimal staining
 conditions. Further dilution may loose the activity and may yield to sub
 optimal staining.

**Storage Recommendations:** Store at 2°-8°C. Do not use after expiration date provided on the vial.

**Staining Recommendations:
 Antigen Retrieval Solution:** Use **Tris-EDTA Buffer(PathnSitu Cat # PS008)** as antigen retrieval
 solution Heat Retrieval Method: Retrieve sections under steam pressure
 for 15 min using PathnSitu’s MERS (Multi Epitope Retrieval System) then
 allow solution to cool for 10 minutes then transfer tissue sections/slides to
 distilled water.

**Primary Antibody:**  Cover the tissue sections with primary antibody and incubate for 30
 min at room temperature when used PathnSitu PolyExcel Detection
 System.

**Detection System:** Refer to PathnSitu PolyExcel detection system protocol or manufacturer’s detection kit staining protocol when used other vendor detection system.

**Cellular Localization:** Cytoplasm and Membrane

**Positive Control:** Small Cell Lung Ca

**Troubleshooting:** Follow the antibody specific protocol recommendations according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at 040-2701 5544 or techsupport@pathnsitu.com.

**Limitations and Warranty:** There are no warranties, expressed or implied, which extend beyond this
 description. PathnSitu is not liable for property damage, personal injury, or
 economic loss caused by this product.

**Bibliography:**  1. Schol DJ, et al. Int J Cancer Suppl. 1988;2:34-40.
 2. Tsang WY, et al. Am J SurgPathol. 1996 Feb;20(2):202-10.
 3. Mooi WJ, et al. Mol Cell Probes. 1988 Mar;2(1):31-7.