Monoclonal Antibody IOTest® CD56-PC5.5

PN A79388 – 50 tests – Liquid – 10 µL/test* – Clone N901 (NKH-1)

Analyte Specific Reagent.
Analytical and performance characteristics are not established.

SPECIFICITY

The molecular weight of the CD56 heavily glycosylated protein (NKH-1 molecule) is 200 – 220 kDa (1, 2). It is expressed on a subpopulation of peripheral blood lymphocytes that demonstrate non-major histocompatibility complex restricted cytotoxicity (1, 3).

The N901 (NKH-1) monoclonal antibody (mAb) reacts with the majority of NK cells (1, 2). It also reacts with a minor subpopulation of $CD3^+$ T cells that mediates reduced cytotoxic activity (3). This antibody does not react with monocytes, granulocytes, erythrocytes or B lymphocytes.

The N901 (NKH-1) mAb has been assigned to the CD56 cluster of differentiation during the 4th HLDA Workshop on Human Leucocyte Differentiation Antigens in Vienna, Austria, in 1989 (4).

REAGENT

IOTest CD56-PC5.5
Conjugated antibody
PN A79388 - 50 tests - Liquid - 10 µL/test*

Clone	N901 (NKH-1)
Isotype	IgG1, Mouse
Immunogen	Chronic myeloid lymphomia
Hybridoma	NS1 x spleen B cells
Source	Ascites fluid
Purification	Protein A affinity chromatography
Conjugation	R Phycoerythrin-Cyanine 5.5 (PC5.5)
Molar Ratio	PC5.5 / Ig : 0.5 - 1.5
Fluorescence	Excites at 488 nm Emits at 692 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PRECAUTIONS

Due to the tandem structure of the fluorochrome, PC5.5 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC5.5. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC5.5-conjugate.

SELECTED RESEARCH REFERENCES

1. Griffin, J.D., Hercend, T., Beveridge, R., Schlossman, S.F., "Characterization of an antigen expressed by human natural killer cells", 1983, J. Immunol., 130, 2947-2951.
2. Hercend, T., Griffin, J.D., Bensussan, A., Schmidt, R.E., Edson, M.A., Brennan, A., Murray, C., Daley, J.F., Schlossman, S.F., Ritz, J., "Generation of monoclonal antibodies to a human natural killer clone: characterization of two natural killer-associated antigens, NKH1A and NKH2, expressed on subsets of large granular lymphocytes", 1985, J. Clin. Invest., 75, 932-943.
3. Lanier, L.L., Le, A.M., Civin, C.I., Loken, M.R., Phillips, J.H., "The relationship of CD16 (Leu-11) and Leu-19 (NKH-1) antigen expression on human peripheral blood NK cells and cytotoxic T lymphocytes", 1986, J. Immunol., 136, 4480-4486.
4. Schubert, J., Lanier, L.L., Schmidt, R.E., "Cluster report: CD56", 1989, Leucocyte Typing IV, White Cell Differentiation Antigens. W. Knapp, et al., Eds., Oxford University Press, 699-702.

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(*): 10 µL is the quantity of product sufficient to stain 5×10^5 cells in a standard immunofluorescence assay