

Monoclonal Antibody IOTest[®] CD33-APC-Alexa Fluor[®] 750

PN A70200 - 50 tests - Liquid - 10 µL/test* - Clone D3HL60.251

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The CD33 antigen is a 67 kDa single chain trans-membrane glyco-protein also designed as gp67 (1).

The gp67 genomic locus was mapped to the long arm of chromosome 19 (2).

The CD33 antigen is expressed by hematopoietic progenitor cells on colony-forming units for granulocytes, erythrocytes, monocytes and megakaryocytes (CFU-GEMM) (3). It is also present on progenitors of granulocytes and mononuclear phagocytes (CFU-GM) and on early erythroid progenitors (BFU-E) (3).

The D3HL60.251 monoclonal antibody (mAb) reacts with cells of myeloid origin, strongly on monocytes, and weakly on granulocytes of the peripheral blood.

It does not react with mature lymphoid cells or lymphoid precursors.

The D3HL60.251 mAb (W.S. Code: M504) has been assigned to the CD33 cluster of differentiation at the 4th International Workshop on Human Leucocyte Differentiation Antigens in Vienna, Austria, in 1989 (4).

REAGENT

IOTest CD33-APC-Alexa Fluor 750

Conjugated Antibody

PN A70200 - 50 tests - Liquid - 10 µL/test*

Clone	D3HL60.251
Isotype	IgG1 kappa, Mouse
Immunogen	HL60
Hybridoma	NS1 x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	Allophycocyanin - Alexa Fluor 750 (APC-Alexa Fluor 750)
Molar Ratio	APC-Alexa Fluor 750 / Ig : 0.5 - 1.5
Fluorescence	Excites at 633 nm Emits at 783 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, APC-Alexa Fluor 750 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-Alexa Fluor 750. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 750-conjugate.

SELECTED RESEARCH REFERENCES

1. Peiper, S.C., Leboeuf, R.D., Hughes, C.B., Prasthofer, E.F., Borowitz, M.J., Dewutter-Dambuyant, C., Katz, D.R., Walker, W.S., Ashmun, R.A., Look, A.T., "Report on the CD33 cluster workshop: Biochemical and genetic characterization of gp67", 1989, Leucocyte Typing IV, White Cell Differentiation Antigens. W. Knapp, et al., Eds., Oxford University Press, 814-816.
2. Peiper, S.C., Ashmun, R.A., Look, A.T., "Molecular cloning, expression and chromosomal localization of a human gene encoding the CD33 myeloid differentiation antigen", 1988, Blood, 1, 72, 314-321.
3. Peiper, S.C., Andrews, R.G., "CD33 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens, Schlossman, S.F., et al., Eds., Oxford University Press, 837-840.
4. Köller, U., Peschel, CH., "Cluster report: CD33", 1989, Leucocyte Typing IV, White Cell Differentiation Antigens, W. Knapp, et al., Eds., Oxford University Press, 812-813.

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(*) : 10 µL is the quantity of product sufficient to stain
5 x 10⁵ cells in a standard immunofluorescence assay

