

IO Test CD235a-APC-Alexa Fluor® 750

PN A89314 – 0.5 mL – Liquid – 10 µL/test* – Clone 11E4B-7-6 (KC16)

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

CD235a, also known as Glycophorin A, is a sialoglycoprotein expressed on the surface of erythroblastic precursor cells (from the pro-erythroblast stage) of reticulocytes and mature red blood cells (1 – 3).

The monoclonal antibody 11E4B-7-6 (KC16) reacts with the 27-39 terminal N amino acid sequence of Glycophorin A and does not recognize Glycophorin B (3).

It was assigned to CD235a during the 7th HLDA Workshop on Human Leucocyte Differentiation Antigens, held in Harrogate, England, in 2000 (WS Code : 70359, Section: Red Cells) (4).

REAGENT

IO Test CD235a-APC-Alexa Fluor 750
Conjugated antibody
PN A89314 - 0.5 mL - Liquid - 10 µL/test*

Clone	11E4B-7-6 (KC16)
Isotype	IgG1, Mouse
Immunogen	Human red blood cells
Hybridoma	NS1 x balb/c
Source	Ascites fluid
Purification	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 633/638 nm Emits at 775 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 considered potentially infectious 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. Chasis, J.A., Mohandas, N., "Red blood cell Glycophorins", 1992, Blood, 80, 1869-1879.
2. Chasis, J.A., Reid, M.E., Ronald, H.J., Mohandas, N., "Signal transduction by glycophorin A: Role of extracellular and cytoplasmic domains in a modulatable process", 1988, J. Cell Biol., 107, 1351-1357.
3. Catimel, B., Wilson, K.M., Kemp, B.E., "Kinetics of the autologous red cell agglutination test", 1993, J. Immunol. Methods, 165, 183-192.
4. Van der Schoot, C.E., Baardman, R., Lighthart, P., de Jong, I., EG KR von dem Borne, A., de Haas, M., "Red Cell Section: Section Report", 2000, Leucocyte Typing VII, White Cell Differentiation Antigens, D. Masson, et al., Eds., Oxford University Press, 566-604.

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