IOTest CD81-FITC

PN B25329 – 1 mL – Liquid – Clone JS64

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

SPECIFICITY

The CD81 molecule is a single chain, 4 transmembrane domains protein (Tetraspan/TM4SF). Both the NH2- and COOH-termini are located inside the cytoplasm, and two loops of the protein sequence are exposed extracellularly. CD81 antigen is not glycosylated and its molecular weight is 26 kDa.
Its tissue distribution is broad, and this antigen may be present in some cases as multimolecular complexes, in association with other members of the TM4 superfamily (CD37, CD53) or, on the surface of B cells, in association with CD19 and/or CD21 and/or MHC class II antigens. Most B lymphocytes, at all stages of cellular differentiation, express CD81 at relatively high levels.
The JS64 monoclonal antibody (mAb) reacts with the majority of normal lymphocytes, monocytes and eosinophils whereas neutrophils and platelets are negative.
JS64 antibody has an anti-proliferative effect on some cell lines, but does not cause apoptosis (1-3).
The JS64 mAb has been assigned to the CD81 cluster of differentiation at the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (4).

REAGENT

IOTest CD81-FITC
Conjugated Antibody
PN B25329 - 1 mL - Liquid

Clone	JS64
Isotype	IgG2a, Mouse
Immunogen	Human cell line Ramos
Hybridoma	NS1 x balb/c
Source	Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification	Affinity chromatography
Conjugation	Fluorescein isothiocyanate (FITC)
Molar Ratio	FITC / Ig : 4.7 - 7.2
Fluorescence	Excites at 488 nm Emits at 525 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.
Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

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.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.
No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

1. Pesando, J.M., Conrad, T., "Antibody-induced antigenic modulation is antigen dependent: characterization of 22 proteins on a malignant human B-cell line", 1986, J. Immunol., 137, 11, 3689-3695.
2. Pesando, J.M., Abed, M., "Malignant Human B cells express two populations of p24 surface antigens", 1986, J.Immunol., 136, 7, 2709-2714.
3. Angesoliva, P., et al., "Large non convalent complexes involving HLA-DR and four antigens of the tetrapans superfamily" (CD37, CD53, TAPA-1 and R2), 1993, Tissue antigens, 42, 4, 308.
4. Tedder, T.F., Wagner, N., Engel, P., "CD81 Workshop report", 1995, in Leucocyte Typing V, white Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, p. 684-688.

TRADEMARKS

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