

Analyte Specific Reagent.

Analytical and performance characteristics are not established

Specifications	
Clone	R9.12
Hybridoma	X63 x balb/c
Immunogen	Soluble Vγ9 Cγ/Vδ1C
Isotype	IgG1
Species	Mouse
Source	Ascites fluid or supernatant of in vitro cultured hybridoma cells
Purification	Affinity chromatography
Fluorochrome	R Phycoerythrin-Cyanine 7 (PC7)
Molar ratio	PC7 / Ig: 0.5 - 1.5
λ excitation	488 nm
Emission Peak	770 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN ₃

IOTest

Anti-TCR Vδ1-PC7

PN B49309

Conjugated Antibody
Liquid - 0.5 mL

SPECIFICITY

Human variable δ1 chain of the T-cell receptor (1) is referred to as TRDV1 (based on the IMGT gene nomenclature) (2).

The R9.12 antibody recognizes the variable δ1 segment of the γδ T cell receptor (3).

Vδ1 is rearranged on both Cα and Cδ and is expressed in these two cell types.

R9.12 reacts only with γδ⁺ Vδ1⁺ cells and not with αβ⁺ Vδ1⁺ cells. Vδ1⁺ γδ⁺ cells are the major T cell population at birth and are over expressed in intestinal intraepithelial lymphocytes (4).

REAGENT CONTENTS

Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

PRECAUTIONS

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.

LIMITATIONS OF THE TECHNIQUE

Due to the tandem structure of the fluorochrome, PC7 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC7. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC7-conjugate.

SELECTED RESEARCH REFERENCES

1. Hata S., Clabby M., Devlin P., Spits H., De Vries J.E., Krangel M.S., "Diversity and organization of human T cell receptor δ variable gene segments", 1989, J. Exp. Med, 169, 41-57.
2. Lefranc, M.P., Giudicelli, V., Ginestoux, C., Bodmer, J., Muller, W., Bontrop, R., Lemaître, M., Malik, A., Barbie, V., Chaume D., "IMGT, the international ImMunoGeneTics database", 1999, Nucleic Acids Res., 27, 209-212.
3. Romagné, F., Peyrat, M.A., Leget, C., Davodeau, F., Houde, I., Necker, A., Hallet, M.M., Vié, H., Bonneville, M., "Structural analysis of γδ TCR using a novel set of TCR γ and δ chain-specific

4. Peyrat, M.A., Davodeau, F., Houde, I., Romagné, F., Necker, A., Leget, C., Cervoni, J.P., Cerf-Bensusan, N., Vié, H., Bonneville, M., Hallet, M.M., "Repertoire analysis of human peripheral blood lymphocytes using a human Vδ3 region-specific monoclonal antibody. Characterization of Dual T Cell Receptor (TCR) δ-chain expressors and αβ T cells expressing Vδ3JαCα-encoded TCR chains", 1995, J. Immunol., 155, 3060-3067.

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