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

SPECIFICITY
Human variable β1 chain of the T-cell receptor (TCR), called TCRBV1S1 according to the nomenclature from Wei et al (1) and also referred to as TRBV9 (based on the IMGT gene nomenclature) (2, 3). The BL37.2 monoclonal antibody (mAb) recognizes Vβ1.1 and Vβ1.2 (HBVT73 and 46W/Q sequences respectively) (4, 5).
None of the other Vβ specific antibodies from the First TCR Workshop (San Francisco, CA, 1995) gave significant staining on the sorted cell lines (6).

REAGENT
IOTest Anti-TCR Vβ1-PE
Conjugated antibody
PN IM2355 - 1 mL - Liquid - 20 µL/test
Clone BL37.2
Isotype IgG1, Rat
Immunogen Rat cell line RBL-2H3 transfected with the human TCR-Vβ1 gene
Hybridoma X63-Ag 8.653 x Lou rat spleen cells
Source Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification Ion exchange chromatography
Conjugation R Phycoerythrin (PE)
Molar Ratio PE / Ig : 0.5 - 1.5
Fluorescence Excites at 488 nm
Emits at 575 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 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

TRADEMARKS
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