

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

Human variable β 13.2 chain of the T-cell receptor (V β 13.2) is also called TCRBV13S2, according to the nomenclature from Wei et al. (1).

The monoclonal antibody H132 recognizes the V β 13.2 allele product (clone 5-2 cDNA, in ref. 2), but does not react with the V β 13.1, 13.3, 13.5 and 13.6 allele products of the V β 13 subfamily (3). The specificity of this antibody has been confirmed at the First Human TCR Workshop in San Francisco, CA, in 1995 (4, 5). None of the other V β specific antibodies from this workshop gave significant staining on the sorted cell lines (6, 7).

REAGENT

IOTest TCR V β 13.2-PE
Conjugated antibody
PN IM3603 - 1 mL - Liquid - 20 μ L/test

Clone	H132
Isotype	IgG1, Mouse
Immunogen	Mouse T-cell hybridoma DS23-27.4 transfected with human TCR-V β 13.2 gene
Hybridoma Source	SP2/0 x SWR spleen cells of in vitro cultured hybridoma cells.
Purification	Ion exchange or affinity 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

1. Wei, S., Charmley, P., Robinson, M.A., Concannon, P., "The extent of the human germline T-cell receptor V β gene segment repertoire", 1994, Immunogenetics, 40, 27-36.
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3. Choi, Y., Kotzin, B., Lafferty, J., White, J., Pigeon, M., Kubo, R., Kappler, J., Marrack, P., "A method for production of antibodies to human T-cell receptor beta-chain variable regions", 1991, Proc. Natl. Acad. Sci. USA, 88, 8357-8361.
4. Posnett, D.N., Romagné, F., Necker, A., Kotzin, B.L., Sekaly, R-P., "First human TcR monoclonal antibody workshop", 1996, The Immunologist, 4/1, 5-8.
5. Liao, L., Gordon, L., Ciurli, C., Sekaly, R.P., Posnett, D.N., "Superantigens and a TcR mAb distinguish between TcR V β alleles", 1996, The Immunologist, 4/1, 28-29.
6. Peyrat, M.A., Gaschet, J., Vivien, R., Vié, H., Bonneville, M., "Clustering of the TcR workshops mAbs by FACS analysis of polyclonal T-cell lines", 1996, The immunologist, 4/1, 9-11.
7. Korman, A., Kelly, R., Brown, E., Pelanne, M., Crownover, A., McIlhane, M., Bill, J., Lederer, D., Tomkinson, B., Karlok, M., "mAb analysis of Murine Hybridomas expressing human V β regions and of rhesus T cells", 1996, The Immunologist, 4/1, 16-20.

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