Monoclonal Antibody Anti-TCR Vβ11- Biotin

PN IM2018 - Freeze-dried - 0.1 mg - Clone C21

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY
Human variable Vβ11 chain of the T-cell receptor is also called TCRV11S1 according to the nomenclature from Wei et al (1). Vβ11 is a subfamily of the T-cell receptor. Two Vβ11 sequences (PL3.12 and PH15) have been described (2, 3). These sequences differ only in their leader sequence and therefore lead to the same mature protein. Vβ11 has been shown to be expanded in a clonal fashion in the CD3+ CD8− CD4− cell population in PBL of several donors (4). The monoclonal antibody C21 recognize the gene product of these sequences. On the average, the monoclonal antibody C21 stains 0.8% of peripheral CD3+ cells from normal donors.

The Vβ11 sequence is also referred to as TRV25-1 (based on the IMGT gene nomenclature) (5).

The specificity of this antibody has been confirmed at the first Human TcR Monoclonal Antibody Workshop in San Francisco in 1995 (6).

APPLICATION
Studies of T-cell repertoire by flow cytometry.

STATEMENT OF WARNINGS
1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY
This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label. No preservative has been added.

REAGENT PREPARATION
Depending of usage, reconstitute with 0.5 mL of distilled water, with or without 0.1% sodium azide (w/v). The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C. The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label. In this case, aliquoting is recommended to avoid multiple freezing / thawing cycles.

CONJUGATION
The purified Ig is conjugated to biotin. Revelation procedure requires streptavidin conjugated with a probe as an additional step after binding of the primary antibody.

PROCEDURE
For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

It is preferable to double stain the sample with another T-cell marker (CD3, CD4, CD8).

SELECTED RESEARCH REFERENCES

PRODUCT AVAILABILITY
Monoclonal Antibody Anti-TCR Vβ11- Biotin
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For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.
www.beckmancoulter.com

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Manufactured by: Immunootech, a Beckman Coulter Company 130, avenue de Lattre de Tassigny, B.P. 177 13276 Marseille Cedex 9, France

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