OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

OriGene EU

Acris Antibodies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Monoclonal Antibody to T Cell Receptor (TCR) V beta 13.1 - Purified

Alternate names: TCR V beta-13.1, TCR Vb13.1

Catalog No.: AM05098PU-N

Quantity: 0.1 mg

Host / Isotype: Mouse / IgG2b

Recommended Isotype Controls: SM12P, AM03110PU-N

Clone: Immu222

Immunogen: Murine T cell hybridoma transfected with human V beta-13.1 gene segment

Format:
State: Lyophilized purified Ig
Buffer System: PBS containing 1mg/ml BSA
Reconstitution: Restore with 0.5ml of distilled water

Applications:
T-cell repertoire studies.
Fluorescent microscopy or flow cytometry: 2µg / 5 x 10e5 cells/tests or 100µl whole blood.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody reacts to the variable beta-13.1 chain of the T cell receptor also called TCRBV13S1 according to the nomenclature from Wei et al. V beta-13.1 is a complex subfamily of the TCR. This antibody recognizes the V beta-13.1 member (HBP34 sequence). The sequence V beta-13.3 (IGRb14) is not recognized. The antibody was characterized on human T-cell clones and by cell sorting followed by molecular analysis of the sorted cells. All of 11 sequence analyzed were V beta-13.1 subfamily cannot be formally excluded. It was been recently shown that Immu222 could recognize V beta-13.4 (Clone 4.1 sequence) and V beta-13.6 (IGRb16 sequence) subsets. No crossreactivity was detected with any of 18 V beta specific antibodies (representing - 70% of the alpha/beta repertoire) on a cell line sorted from PBL and 100% positive with Immu222.
Species: Human.
Other species not tested.

Storage:
Prior to reconstitution store at 2-8°C.
Following reconstitution store the antibody at -20°C.
The addition of 0.1% (w/v) sodium azide is recommended for storage of the reconstituted form for up to 1 month at 2 - 8°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Wei S, Charmley P, Robinson MA, Concannon P. The extent of the human germline T-cell receptor V beta gene segment repertoire. Immunogenetics. 1994;40(1):27-36. PubMed

PMID: 8206523.
2. Li, Y., et al., (1991), :The genomic structure of human V Beta 6 TCR genes, J. Exp. Med., 174, 1537 - 1547.
3. Kimura N, Toyonaga B, Yoshikai Y, Triebel F, Debre P, Minden MD, et al. Sequences and diversity of human T cell receptor beta chain variable region genes. J Exp Med. 1986 Sep 1;164(3):739-50. PubMed PMID: 3755748.
4. Ferradini, L., et al., Studies on the human TCR alpha beta variable region genesll. Identification of four additional V beta subfamilies, Eur. J. Immunol., 21, 935 - 942.
5. Posnett, D.N., et al., (1996), First human TcR monoclonal antibody workshop, The Immunologist, 4, 1, 5 - 8.