AM05099FC-N

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) Vb 17 - FITC

Alternate names: TCR V beta-17, TCR Vb17

Catalog No.: AM05099FC-N

Quantity: 50 Tests

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: SM10F (for use in human samples)

Clone: E17.5F3

Immunogen: Mouse T-cell hybridoma transfected with V beta-17 gene segment.
Remarks: Hybridization of X63 Ag 8.653.
Mmyeloma cells with spleen cells from BALB/c mice.

Format: **State:** Liquid IgG fraction
Buffer System: PBS containing 2 mg/ml BSA as stabilizer and 0.09% Sodium Azide as preservative
Label: FITC – Fluorescein

Applications: Studies have shown that V beta-17 may be useful in T-cell repertoire research.
Superantigenic stimulation of T cells; V beta-17 seems to be the target of MAM (6).
Flow Cytometry: 20 µl/5x10e5 cells/test.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes Human variable beta-17 chain of the T-cell receptor also called TCRBV17S1 according to the nomenclature of Wei et al.(1). V beta-17 is a single membered family (HBVT02). This antibody has been further characterized by cell sorting on PBL using this antibody followed by analysis of sorted cells by molecular biology. Analysis of alpha chain mRNA by PCR with a panel of a specific oligonucleotides shows transcripts for most V alpha sequences. Analysis of beta chain mRNA by anchored PCR and sequencing, only shows transcripts for beta-17 gene segment (HBVT02 sequence). This antibody is described in Reference 4.
The specificity of this antibody has been confirmed at the First Human TCR Monoclonal Antibody Workshop in San Francisco in 1995 (5).
Species: Human.
Other species not tested.

Storage: Store the antibody undiluted (in the Dark) at 2-8°C.
DO NOT FREEZE!
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. Kimura N, Toyonaga B, Yoshikai Y, Du RP, Mak TW. Sequences and repertoire of the human T cell receptor alpha and beta chain variable region genes in thymocytes. Eur J Immunol. 1987 Mar;17(3):375-83. PubMed PMID: 3494611.
3. Diu A, Romagné F, Genevée C, Rocher C, Bruneau JM, David A, et al. Fine specificity of monoclonal antibodies directed at human T cell receptor variable regions: comparison with oligonucleotide-driven amplification for evaluation of V beta expression. Eur J Immunol. 1993 Jul;23(7):1422-9. PubMed PMID: 8391986.
4. Romagné F, Besnardeau L, Malissen B. A versatile method to produce antibodies to human T cell receptor V beta segments: frequency determination of human V beta 2+ T cells that react with toxic-shock syndrome toxin-1. Eur J Immunol. 1992 Oct;22(10):2749-52. PubMed PMID: 1396978.