

TCR V α 24 J α 18 (6B11): sc-81719

BACKGROUND

The T cell antigen receptor (TCR) recognizes a wide variety of foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. TCR is a heterodimer composed of either α and β or γ and δ chains. The vast majority of circulating T cells (95%) express the α/β heterodimer while roughly 2-5% express the γ/δ heterodimer. Recognizing such a variety of antigens requires diverse specificities in the TCR repertoire. This is obtained by the somatic recombination of variable (V), diversity (D) and joining (J) gene segments in the assembly of each TCR chain. The TCR β and γ chain genes lie in distinct loci, while the genes encoding the TCR α and δ chains comprise a single locus. The assembled TCR α chain includes only V and J segments. TCR V α 24 J α 18 represents a unique variant of a TCR α chain.

REFERENCES

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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: TRA (human) mapping to 14p13.

SOURCE

TCR V α 24 J α 18 (6B11) is a mouse monoclonal antibody raised against TCR V α 24 J α 18 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TCR V α 24 J α 18 (6B11) is recommended for detection of a unique determinant in the CDR3 region of the invariant TCR V α 24 J α 18 of human origin by flow cytometry (1 μ g per 1 x 10⁶ cells).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.