

Product Datasheet

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Anti-Human TCR Va24-Ja18 (iNKT cell)

Purified

Monoclonal Antibody

Product Information

Product No.: T1706
Clone: 6B11
RRID: AB_2894349
Isotype: Mouse IgG1 κ
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 6B11 recognizes the invariant CDR3 region of the human Va24-Ja18 TCR.

Antigen Distribution:

The Va24-Ja18 TCR is expressed on iNKT cells.

Background:

TCR Va24-Ja18 antibody, 6B11, recognizes the CDR3 region of the V alpha 24 and J alpha 18 TCR alpha locus (Va24-Ja18). The Va24-Ja18 semi-invariant TCR is expressed on a highly conserved T cell subset, named invariant natural killer T (iNKT cells), which also express NK cell-associated molecules. The Va24-Ja18 TCR recognizes lipid antigens, such as α -galactosylceramide (α -GalCer), presented by the MHC class I-like molecule CD1d¹. Following activation, iNKT cells rapidly proliferate and produce large amounts of IL-4, IFN γ , and cytolytic mediators^{2,3}. iNKT cells have both inflammatory and immunoregulatory functions and are implicated in anti-tumor immunity, protection against infections, suppression of autoimmunity, and the development of inflammatory diseases⁴.

Known Reactivity Species:

Human

Format:

Purified

Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

Storage and Stability

This purified antibody is stable when stored at 2-8°C. Do not freeze.

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using in vitro cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this TCR Va24-Ja18 antibody for staining cells in flow cytometry is $\leq 1.0 \mu\text{g}$ per 106 cells in a volume of 100 μl or 100 μl of whole blood. Titration of the reagent is recommended for optimal performance for each application.

Country of Origin

USA

References

1. Van Kaer L., et al. (2004) Nat Rev Immunol. 4(3):231-7

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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