

TECHNICAL DATA SHEET

CyFlow™ TCR alpha/beta Purified Anti-Rt; Clone R73

REF CH797281

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	TCR α/β
Alternative Names	—
Clone	R73
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Rat, Non-Human Primates
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Rat T blasts and erythrocytes

Specificity

The mouse monoclonal R73 recognizes TCR α/β antigen, the dominant subtype of T cell receptor expressed in peripheral blood.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry
- Immunocytochemistry
- Functional assays

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

The antigen-specific T cell receptor (TCR) is composed of either α and β subunit, or γ and δ subunit. Majority of T cells present in the blood, lymph and secondary lymphoid organs express TCR α/β heterodimers, whereas the T cells expressing TCR γ/δ heterodimers are localized mainly in epithelial tissues and at the sites of infection. The subunits of TCR heterodimers are covalently bonded and in the endoplasmic reticulum they associate with CD3 subunits to form functional TCR-CD3 complex. Lack of expression of any of the chains is sufficient to stop cell surface expression.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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