

TECHNICAL DATA SHEET

CyFlow™ CD3 PE-Cy7 **Anti-Ms; Clone 145-2C11**

REF CT140267

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD3
Alternative Names	T3, Leu4
Clone	145-2C11
Clonality	monoclonal
Format	PE-Cy7
Host / Isotype	Hamster / IgG
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.5 mg/ml]
Immunogen	Mouse BM10-37 cytotoxic T lymphocytes

Specificity

The Armenian hamster monoclonal antibody 145-2C11 recognizes mouse CD3 (ε subunit). This antibody is commonly used as a phenotypic marker for mouse T cells.

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Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

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

CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 γ , CD3 δ , CD3 ϵ and CD3 ζ . These CD3 subunits are structurally related members of the immunoglobulins superfamily encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation.

References

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

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