

TECHNICAL DATA SHEET

CyFlow™ Lambda-LC PE Anti-Hu; Clone 4C2

REF AU344506

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	λ light chains
Alternative Names	—
Clone	4C2
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	Sheep Goat Rabbit Guinea pig Hamster
Quantity	100 tests
Immunogen	< no data >

Specificity

The mouse monoclonal antibody 4C2 recognizes λ light chains (22.5 kDa) of human immunoglobulin.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈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

Immunoglobulin classes share the same basic four polypeptide chain structure of two heavy chains (five heavy chains types) and two light chains (κ and λ; both having a molecular weight of 22.5kDa). κ and λ consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region. The ratio of κ to λ is 70:30.

References

- Franklin EC: Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975; 194:77-95. < PMID: 47690 >
- Brinkmann V, Heusser CH: T cell-dependent differentiation of human B cells into IgM, IgG, IgA, or IgE plasma cells: high rate of antibody production by IgE plasma cells, but limited clonal expansion of IgE precursors. Cell Immunol. 1993 Dec; 152(2):323-32. < PMID: 8258141 >

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

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