TECHNICAL DATA SHEET

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

REF **CM145156**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	λ light chains
Alternative Names	—
Clone	4C2
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	Sheep | Goat | Rabbit | Guinea pig | Hamster
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	< no data >

Specificity

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

Contact Information:

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Application

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

- Flow cytometry
- Immunohistochemistry
- Enzyme-linked immunosorbent assay

Storage Buffer

The reagent is provided in 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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