

TECHNICAL DATA SHEET

CyFlow™ Kappa-LC Purified Anti-Hu; Clone MEM-09

REF AZ311693

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

Specifications

Antigen	κ light chains
Alternative Names	—
Clone	MEM-09
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Crude thymus membrane fraction

Specificity

The mouse monoclonal antibody MEM-09 recognizes both secreted and B cell-surface human immunoglobulin, specifically reacts with κ light chains (22.5 kDa). Material immunoprecipitated from human serum with the antibody MEM-09 consists of IgG and traces of IgM/

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Application

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

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry (paraffin-embedded sections)
- Immunocytochemistry
- Enzyme-linked immunosorbent assay

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

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 >
- Horejsi V, Hilgert I, Kristofova H, Bazil V, Bukovsky A, Kulhankova J: Monoclonal antibodies against human leucocyte antigens (I); Antibodies against beta-2-microglobulin, immunoglobulin kappa light chains, HLA-DR-like antigens, T8 antigen, T1 antigen, a monocyte antigen, and a pan-leucocyte antigen. Folia Biol (Praha). 1986; 32(1):12-25. < PMID: 2422063 >

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

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