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## Purified Monoclonal Antibody to Kappa light chains

**CLX03NA**

**Lot:**

Size: 0.1mg

Clone: MEM-09

Isotype: Mouse IgG2a

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

Immunogen: Crude thymus membrane fraction.

Species Reactivity: Human

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by protein-A affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4.

Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: **Flow Cytometry:** *Recommended dilution: 5µg/ml*

**Immunoprecipitation**  
**Western Blotting**  
**Immunohistochemistry (paraffin sections)**  
**Immunocytochemistry**  
**ELISA**

*Continued Overleaf.....*

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Background:

**Immunoglobulin** classes share the same basic four polypeptide chain structure of two heavy chains (five heavy chains types) and two light chains (**kappa**, lambda; both having a molecular weight of 22.5kDa). Kappa and lambda 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 kappa to lambda is 70:30.

References:

\*Franklin EC: Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975;194:77-95.

\*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.

**Laboratory Reagent For Research Use Only**