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**Anti-Human Kappa Light Chain
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL6053AP	Purified	50 µg	1.0 mg/ml	CLCMG100
CL6053AP-2	Purified	250 µg	1.0 mg/ml	CLCMG100
CL6053APC	APC	100 µg	0.1 mg/ml	CLCMG105
CL6053B	Biotin	100 µg	0.1 mg/ml	CLCMG115
CL6053F	FITC	100 µg	0.1 mg/ml	CLCMG101
CL6053PE	PE	50 µg	0.1 mg/ml	CLCMG104
CL6053HP	HRPO	100 µg	1.0 mg/ml	N/A

Isotype: Mouse IgG₁, k

DESCRIPTION:

Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. They are typically composed of two identical heavy chains and two identical light chains and assume a "Y" shaped structure. In mammals there are five different types of heavy chain, G, A, M, D and E in addition to two distinct types of light chain, kappa and lambda. Additionally, in mammals any of the heavy chain types can associate with either kappa or lambda light chains; but on any immunoglobulin molecule both light-chains are always of the same type.

The typical ratio of kappa to lambda is 70:30, the majority of which is bound to heavy-chain in immunoglobulin. Low levels of free light-chain are present in serum of normal individuals (kappa, 1.6-15.2 mg/L; Lambda, 0.4-4.2mg/L). With the occurrence of multiple myeloma or other B-cell malignancies the kappa/lambda ratio can be disturbed and levels of free light chain can be significantly elevated and found at high levels in the urine.

This anti-kappa light chain antibody is useful for the identification of immunoglobulins in leukemias, plasmacytomas and certain non-Hodgkin's lymphomas.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified using Protein G chromatography). For maximum recovery of contents, spin down tube before use.

Biotin, FITC, PE and APC: Biotin/FITC/PE/APC conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

HRPO: HRPO conjugated IgG buffered in PBS with 40% glycerol (v/v) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. No NaN₃ with other preservatives.

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STORAGE/STABILITY:

For all formats, store at +4°C. DO NOT FREEZE **PE and APC** conjugates. For long term storage (**Purified/Biotin/FITC/HRPO**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles. For maximal recovery of contents, please quick-spin vial before opening.

APPLICATION:

This antibody is suitable for use in ELISA, Western Blot, Flow Cytometry and Immunohistochemistry with frozen and paraffin-embedded sections.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

SPECIFICATIONS:

Clone: HP6053

Immunogen: Purified Human Ig kappa chain.

Specificity: Human kappa light chain.

ELISA Specificity: human kappa light chain - 100%
human lambda light chain - < 0.01%

REFERENCES:

1. Hamilton, R.G. et al; Isoelectric focusing-affinity immunoblot analysis of mouse monoclonal antibodies to the four human IgG subclasses. Electrophoresis, 8:127-34, 1987.
2. Reimer, C.B. et al; Evaluation of thirty-one mouse monoclonal antibodies to human IgG epitopes. Hybridoma, 3: 263-75, 1984.

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