

1P-504-T100

## Monoclonal Antibody to Kappa light chains Phycoerythrin (PE) conjugated (100 tests)

<b>Clone:</b>	A8B5
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody A8B5 reacts with kappa light chains (22.5 kDa) of immunoglobulins.
<b>Regulatory Status:</b>	RUO
<b>Species Reactivity:</b>	Human
<b>Negative Species:</b>	Hamster, Sheep, Goat, Rabbit, Guinea pig
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.

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**Antibodies**

- References:**
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  - \*Scheeren FA, Diehl SA, Smit LA, Beaumont T, Naspetti M, Bende RJ, Blom B, Karube K, Ohshima K, van Noesel CJ, Spits H: IL-21 is expressed in Hodgkin lymphoma and activates STAT5: evidence that activated STAT5 is required for Hodgkin lymphomagenesis. Blood. 2008 May 1;111(9):4706-15. doi: 10.1182/blood-2007-08-105643
  - \*Di Bartolo DL, Hyjek E, Keller S, Guasparri I, Deng H, Sun R, Chadburn A, Knowles DM, Cesarman E: Role of defective Oct-2 and OCA-B expression in immunoglobulin production and Kaposi's sarcoma-associated herpesvirus lytic reactivation in primary effusion lymphoma. J Virol. 2009 May;83(9):4308-15. doi: 10.1128/JVI.02196-08.

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