

## Monoclonal Antibody to Human Kappa Light Chain - PE

<b>Catalog No.:</b>	AM03059RP-N
<b>Quantity:</b>	100 Tests
<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.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	A8B5
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Size-exclusion chromatography. <b>Buffer System:</b> PBS containing 15 mM sodium azide as preservative and 0.2% (w/v) high-grade BSA (Protease free) as stabilizer. <b>Label:</b> PE – R-Phycoerythrin under optimum conditions
<b>Applications:</b>	Suitable for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with kappa light chains (22.5 kDa) of immunoglobulins. Negative Species: Hamster, Sheep, Goat, Rabbit, Guinea pig <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody in the dark at 2-8°C. <b>Do Not Freeze!</b> Avoid prolonged exposure to light. Shelf life: One year from despatch.
<b>General Readings:</b>	1. Franklin EC. Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975;194:77-95. PubMed PMID: 47690. 2. König A, Wennemuth G, Soyer HP, Hoffmann R, Happle R, Krause W. Vulvar amyloidosis mimicking giant condylomata acuminata in a patient with multiple myeloma. Eur J Dermatol. 1999 Jan-Feb;9(1):29-31. PubMed PMID: 9920983. 3. Avilés-Salas A, Chanona-Vilchis JG, Candelaria-Hernández MG, Peña-Torres Mde L, Cuéllar-Mendoza ME: Presentación inicial de un linfoma plasmablastico como tumor ovárico. Ginecol Obstet Mex. 2012 Jun;80(6):430-4. 4. Díaz de Domingo NB, Lardo MM, Romero Artaza J, Merelli A, Carbia CD, Sánchez Avalos JC: Aplicacion de tecnicas inmunocitoquimicas para el diagnostico de neoplasias

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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5. Scheeren FA, Diehl SA, Smit LA, Beaumont T, Naspetti M, Bende RJ, et al. 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. Epub 2008 Feb 22. PubMed PMID: 18296629.

6. Di Bartolo DL, Hyjek E, Keller S, Guasparri I, Deng H, Sun R, et al. 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. Epub 2009 Feb 18. PubMed PMID: 19224997.

**Pictures:**

B lymphocytes (CD19+) in a dot-plot Lambda PE vs. Kappa FITC. Kappa light chain detected by A8B5 antibody and lambda light chain by 4C2 antibody, CD19 by LT19 antibody.

