

Monoclonal Antibody to Human Kappa Light Chain - FITC

Catalog No.:	AM03059FC-N
Quantity:	100 Tests
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.
Host / Isotype:	Mouse / IgG1
Clone:	A8B5
Format:	State: Liquid purified Ig fraction Buffer System: PBS containing 15 mM Sodium Azide as preservative and 0.2% (w/v) high-grade BSA (Protease free) as stabilizer. Label: FITC – Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated and adjusted for direct use
Applications:	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.
Specificity:	The antibody A8B5 reacts with kappa light chains (22.5 kDa) of immunoglobulins. Negative Species: Hamster, Sheep, Goat, Rabbit and Guinea pig. Species: Human. Other species not tested.
Storage:	Store the antibody in the dark at 2-8°C. DO NOT FREEZE! Avoid prolonged exposure to light. Shelf life: One year from despatch.
General Readings:	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 or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



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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.

