

Monoclonal Antibody to Human Lambda Light Chain - FITC

Catalog No.:	SM1009F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	All five immunoglobulin classes share the same basic four polypeptide chain structure of two heavy-chains and two light chains. There are five heavy chain types, and two light-chain types (Kappa and Lambda) both having a molecular weight of 22.5kDa. Any heavy-chain type can associate with either light-chain type, but on any immunoglobulin molecule both light-chains are of the same type. 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, the vast majority of which is bound to heavy-chain in immunoglobulin. In normal individuals low levels of free light-chain are present in serum (kappa, 1.6-15.2 mg/L; Lambda, 0.4-4.2mg/L), with the occurrence of multiple myeloma or other B-cell malignancies these levels can be greatly elevated and can be found at high levels in the urine (Bence-Jones proteins).
Host / Isotype:	Mouse / IgG1
Clone:	Mc24-IC6
Immunogen:	Purified human IgG. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSI myeloma cell line.
Format:	State: Liquid purified IgG fraction. Purification: Affinity chromatography on Protein A Buffer System: PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow cytometry: use neat antibody to label 10e6 cells or 10 µl washed whole blood. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises lambda light chains, and shows no cross- reactivity to kappa light chains or to immunoglobulin heavy chains. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General References:	1. Reynolds, W. M. et al. (1992) A simple technique for the determination of kappa and lambda immunoglobulin light chain expression by B cells in whole blood : J. Immunol.

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.

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Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

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