

AM08129BT-N

Monoclonal Antibody to Chicken Lambda light chain - Biotin

Alternate names:

Ig lambda chain C regions

Quantity:

0.5 mg

Concentration:

0.5 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:

L-1

Format:

State: Liquid purified Ig fraction.

Buffer System: PBS containing 0.09% Sodium Azide as preservative.

Label: Biotin

Applications:

ELISA.

Flow Cytometry: $< 1 \mu\text{g}/10^6$ cells.

Immunofluorescence.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody recognizes Lambda light chains of Chicken Immunoglobulin. (Ref.1)

Species: Chicken.

Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer.

This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Chen, C.H., J.E. Lehmeyer, and M.D. Cooper. 1982. J. Immunol. 129:2580-2585