

## Product datasheet for **AM32226SU-N**

### Human Lambda Light Chain Mouse Monoclonal Antibody [Clone ID: 48]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	48
Applications:	ELISA, IHC
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Frozen Sections:</b> Use at 1/100 dilution preferably in PBS. <b>Immunohistochemistry on Paraffin Sections:</b> Use at 1/10 dilution. A positive result on Paraffin Embedded tissue could be obtained with a TUF pretreatment. <i>Recommended Positive Control:</i> Tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	In <b>ELISA</b> the antibody will react with <i>free</i> Lambda chains and also with Lambda chains attached to <i>heavy chains</i> . In <b>Ouchterlony Immunodiffusion</b> , no reaction with Bence Jones Lambda or Ig Lambda. No crossreactivity with Kappa chains. The antibody stains Lambda chain containing cells in sections of sublimated Fixed and Paraffin Embedded tissues. Membrane bound Ig containing Lambda Light chains will also be recognized as well as cytoplasmic Ig from bone marrow cells containing Lambda chains. All cells reacting with conventional anti-Lambda will also react with this antibody.
Formulation:	PBS State: Supernatant State: Liquid Supernatant Preservative: 10 mM Sodium Azide, 1% FCS
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.



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**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).