

**Mouse Anti-Human Lambda Light Chains,**  
monoclonal

**CatNo** **K037**

BatchNo: See Label  
Expiration Date: See Label  
Storage: 2-8°C for 1 month  
-20°C for longer

<b>Clone Number:</b>	HP-6054
<b>Volume/Quantity:</b>	0.1 ml
<b>Product Form:</b>	Ascites fluid - liquid
<b>Preservatives Stabilisers:</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations:</b>	IgG concentration 7.3 mg/ml
<b>Immunogen:</b>	Purified human IgG molecules in the urine (Bence Jones paraproteins). myeloma proteins covalently coupled to polyaminostyrene (PAS) microbeads were used as the Uses immunogen.
<b>Isotype:</b>	IgG2a (Mouse)
<b>Specificity:</b>	Monoclonal Anti-Human Lambda Light Chains is specific for the lambda light chains of human immunoglobulins (all isotypes), and is non-reactive with kappa light chains. The antibody recognizes both the heavy chain-bound and the free (Bence Jones) human lambda light chain in an ELISA. The estimated association constant of this antibody to its ligand is 1.2 x 10 <sup>9</sup> L/M. Immunoglobulins are composed of two heavy and two light polypeptide chains held together by noncovalent forces and usually by interchain disulfide bridges. The various types of human (and other mammalian) immunoglobulins contain one of the two existing light chain types, either kappa or lambda in which multiple structural differences are reflected in antigenic variety mainly the N-terminal (variable) domain of the chains. In monoclonal disorders, such as myeloma and macroglobulinemia, an increase in the level of a single immunoglobulin class can be accompanied by disproportionate increases in either lambda or kappa light chains. In many cases of B cell malignancy there is an increased production of light chains which are not combined with heavy chains. These circulate in the various body fluids (blood, cerebral spinal fluid, and tissues) and are found in enormous amounts as free molecules in the urine (Bence Jones paraproteins).

**Applications:**

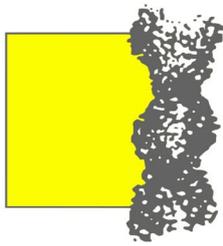
Suggested Working Dilution

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FlowCytometry	Not tested	
Immunohistology-frozen	Yes	1/500
Immunohistology-paraffin	Yes	1/500
Immunohistology-resin	Not tested	
ELISA	Yes	1/1000
Immunoprecipitation	Yes	
Western Blotting	Yes	1/1000
Radioimmunoassay	Yes	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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**Immunohistology**

<b>Pre-treatment:</b>	Proteolytic digestion prior to staining of paraffin sections with Pronase (LINARIS CatNo. E110) increase the staining sensitivity.
<b>Recommended Secondary Reagents:</b>	F(ab') <sub>2</sub> rabbit anti-mouse IgG HRP conjugate - (LINARIS CatNo LST0013B) Vectastain <sup>®</sup> ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector <sup>®</sup> Red (Vector CatNo SK-5100). Vectastain <sup>®</sup> ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).
<b>Recommended Negative Controls:</b>	Mouse IgG2a Negative Control (LINARIS CatNo ITC0929)

**Westernblotting**

<b>Chemiluminescent Substrate:</b>	DuoLuX Chemiluminescent Substrate for Alkaline Phosphatase (AP) (Vector CatNo SK-6605) and Peroxidase (POD) (Vector CatNo SK-6604).
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**References**

1. Reimer, C.B., et al., Hybridoma 3, 263 (1984)

<b>Storage Conditions:</b>	Store at 2-8°C for one month or at -20°C for longer! Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Shelf Life:</b>	12 months from date of despatch.
<b>Health and Safety Information:</b>	(A full Health and Safety assessment is available upon request) This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**For Research purposes only. Not for therapeutic or diagnostic use.**

