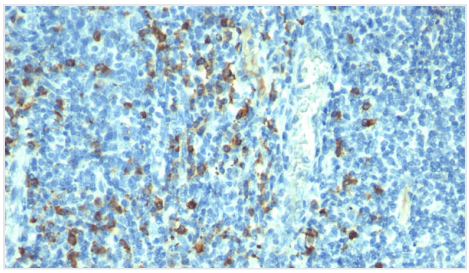
Lambda Light Chain Secondary Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Lambda Light Chain, Secondary Antibody
Full Product Name	Lambda Light Chain (PE)
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	LcN-2
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in 10mM PBS. No preservative added. BSA-Free. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein G Affinity Chromatography
Specificity	Recognizes human lambda light chain. Useful in identifying leukemias, plasmacytomas, and some non-Hodgkin's lymphomas.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	~22.5kDa
3D Structure	ModBase 3D Structure for P01701
Immunogen	Human IgG
Conjugate	PE
Positive Control	293T, Raji or hPBL cells. Tonsil or Spleen
Special Handling	Light sensitive
Product Categories/Family for Lambda Light Chain secondary antibody	Antibodies; IgG Lambda
Applications Tested/Suitable for Lambda Light Chain secondary antibody	Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for Lambda Light Chain secondary antibody	IP: 0.5-1ug/500ug protein lysate IF: 1-2ug/ml FC/FACS: 0.5-1ug/10e6 cells Western Blot: 0.5-1ug/ml Applications are based on unconjugated antibody.
Related Product Information for Lambda Light Chain secondary antibody	MBS6122314 is a secondary antibody targeting Lambda Light Chain. Also known as Lambda Light Chain (PE). Reactive in Human. Host: Mouse.
Product References and Citations for Lambda Light Chain secondary antibody	1. Campbell JP et. al. J Immunol Methods. 2013;391(1-2):1-13.

Other Notes	Small volumes of Lambda Light Chain secondary antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of Lambda Light Chain secondary antibody
Formalin-fixed, paraffin-embedded human tonsil stained with Lambda LcN-2 antibody (1:200), peroxidase-conjugate and DAB chromogen. Note specific cytoplasmic staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Lambda Light Chain. It may not necessarily be applicable to this product.

NCBI GI #	126541
NCBI GeneID	3535
NCBI Accession #	P01701.1
UniProt Primary Accession #	P01701
UniProt Secondary Accession #	P01842
NCBI Official Full Name	Ig lambda chain V-I region NEW
UniProt Protein Name	Ig lambda chain V-I region NEW
UniProt Entry Name	LV103_HUMAN
UniProt Comments for Lambda Light Chain	IGLV1-51: V segment of the variable region of immunoglobulins light chain that participates to the antigen recognition. Immunoglobulins (Igs), also known as antibodies, are membrane- bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound Igs serve as receptors which, upon binding of a specific antigen (Ag), trigger the clonal expansion and differentiation of B lymphocytes into Ig-secreting plasma cells. Secreted Igs mediate the effector phase of humoral immunity, which results in the elimination of bound antigens (PubMed:20176268, PubMed:22158414). The antigen binding site is formed by the variable region of one heavy chain, together with that of its associated light chain. Thus, each Ig has two antigen binding sites with remarkable affinity for a particular antigen. The variable regions are assembled by a process called V(D)J recombination and can then be subjected to somatic hypermutation after exposure to antigen to allow affinity maturation for a particular Ag (PubMed:20176268, PubMed:17576170). {ECO:0000303|PubMed:17576170, ECO:0000303|PubMed:20176268, ECO:0000303|PubMed:22158414}. Immunoglobulins are composed of two identical heavy chains and two identical light chains, linked by disulfide bonds. {ECO:0000303|PubMed:20176268}
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