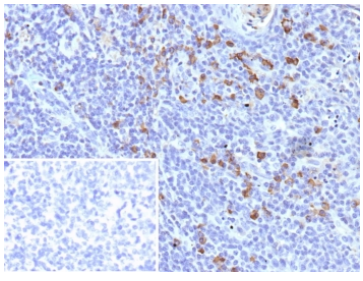
Lambda Light Chain Antibody IGLC1/9475 / B-Cell Marker Antibody [clone IGLC1/9475] (V5747)

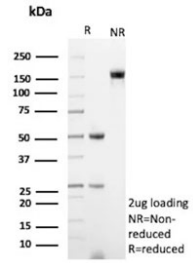
Catalog No.	Formulation	Size
V5747-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5747-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5747SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	IGLC1/9475
Purity	Protein G affinity
UniProt	P01701
Localization	Cell surface, cytoplasmic and secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Lambda Light Chain Antibody IGLC1/9475 / B-Cell Marker Antibody is available for research use only.



Lambda Light Chain Antibody IGLC1/9475 in Human Tonsil Tissue IHC. Immunohistochemistry staining of FFPE human tonsil tissue with Lambda Light Chain Antibody clone IGLC1/9475 demonstrates strong cytoplasmic brown staining in scattered cells distributed throughout the lymphoid tissue, while surrounding cells are largely unstained. The PBS negative-control inset shows little to no corresponding brown staining. HIER was performed by boiling sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min followed by cooling before testing. The selective cellular pattern supports use of this B-Cell Marker Antibody for detecting lambda light chain-expressing cells in human tonsil.



Purified Lambda Light Chain Antibody IGLC1/9475 Reducing and Non-Reducing SDS-PAGE. SDS-PAGE analysis of purified, BSA-free Lambda Light Chain Antibody clone IGLC1/9475 shows prominent heavy and light antibody chains at approximately 50 and 25 kDa under reducing conditions. Under non-reducing conditions, the predominant intact antibody species migrates at approximately 150 kDa. The gel provides an assessment of the integrity and composition of the purified B-Cell Marker Antibody preparation.

Description

Lambda Light Chain Antibody reagents are used to detect immunoglobulins containing lambda light chains. Immunoglobulin molecules consist of two identical heavy chains and two identical light chains, with each antibody containing either kappa or lambda light chains. These light chains contribute to the antigen-binding region of the immunoglobulin molecule and are expressed by B cells and antibody-secreting plasma cells.

Human lambda light chains are encoded by gene segments within the immunoglobulin lambda locus on chromosome 22. Rearrangement of variable and joining gene segments contributes to immunoglobulin diversity, while lambda light chains pair with immunoglobulin heavy chains to form functional antibodies. Lambda chains may be present as components of membrane-bound B-cell receptors, secreted immunoglobulins, or free immunoglobulin light chains.

Lambda light chain is commonly studied as a B-cell marker because mature B-cell populations express immunoglobulins containing either kappa or lambda light chains. Polyclonal B-cell populations normally contain both light-chain types, whereas restricted expression of one light-chain class can provide information about clonality. A B-Cell Marker Antibody targeting lambda light chain can therefore complement kappa light-chain reagents in studies of B-cell and plasma-cell populations.

Lambda light-chain expression is investigated in immunology, antibody production, B-cell biology, and research involving lymphoid and plasma-cell disorders. Free monoclonal immunoglobulin light chains have also historically been described as Bence Jones proteins, terminology associated with studies of plasma-cell dyscrasias and abnormal immunoglobulin production. Detection of lambda expression can consequently provide information about both normal immunoglobulin biology and clonal lymphoid populations.

A Lambda Light Chain Antibody such as clone IGLC1/9475 provides a mouse monoclonal reagent generated against purified human lambda light chain. The antibody is specific for human lambda light chain and shows no cross-reaction with kappa light chain or the five immunoglobulin heavy-chain classes, supporting selective investigation of lambda-expressing B-cell and plasma-cell populations. NSJ Bioreagents offers IGLC1/9475 for research examining immunoglobulin expression, light-chain restriction, and B-cell biology.

For a recombinant mouse monoclonal targeting the same immunoglobulin light-chain class, see our Lambda Light Chain Antibody rLLC/1738 / IGL Antibody page.

Application Notes

Optimal dilution of the Lambda Light Chain Antibody IGLC1/9475 / B-Cell Marker Antibody should be determined by the researcher.

Immunogen

Purified human lambda light chain was used as the immunogen for the was used as the immunogen for the Lambda Light Chain Antibody IGLC1/9475.

Storage

Aliquot the Lambda Light Chain Antibody IGLC1/9475 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

IGL antibody, Immunoglobulin lambda light chain antibody, Lambda chain antibody, Ig lambda antibody, B-cell marker antibody, Bence Jones protein antibody

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