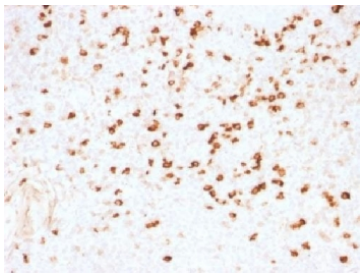
Lambda Light Chain Antibody N10/2 / Mouse Monoclonal [clone N10/2] (V3261)

Catalog No.	Formulation	Size
V3261-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3261-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3261SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

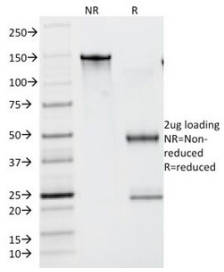
Citations (20)

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	N10/2
Purity	Protein G affinity chromatography
UniProt	P01701, P01842
Localization	Cell Surface, Cytoplasmic and Secreted
Applications	Flow cytometry: 0.5-1ug/10^6 cells Immunofluorescence: 1-2ug/ml Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This Lambda Light Chain Antibody N10/2 is available for research use only.



Lambda Light Chain Antibody N10/2 in Human Tonsil Tissue IHC. Immunohistochemistry staining of FFPE human tonsil tissue with Lambda Light Chain Antibody clone N10/2 demonstrates strong brown staining in numerous individual lymphoid cells distributed throughout the tissue, with surrounding cells largely unstained. HIER was performed by boiling tissue sections in 10 mM citrate buffer, pH 6, for 10-20 min before testing. The selective cellular pattern is consistent with detection of lambda light chain-expressing cells in human tonsil.



Purified Lambda Light Chain Antibody N10/2 Reducing and Non-Reducing SDS-PAGE. SDS-PAGE analysis of purified, BSA-free Lambda Light Chain Antibody clone N10/2 shows a predominant intact antibody species at approximately 150 kDa under non-reducing conditions. Under reducing conditions, prominent heavy and light antibody chains are visible at approximately 50 and 25 kDa, respectively. The gel provides an assessment of the integrity and composition of the purified N10/2 mouse monoclonal antibody preparation.

Description

Lambda Light Chain Antibody clone N10/2 is a mouse monoclonal reagent for detecting human 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. Lambda light chains contribute to the antigen-binding region of immunoglobulins and are expressed by a subset of mature 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 antibody diversity, while the resulting lambda chains associate with immunoglobulin heavy chains to form functional antibodies. Lambda light chains can occur within membrane-bound B-cell receptors and secreted immunoglobulins or as free immunoglobulin light chains.

Kappa and lambda light-chain expression is frequently examined when studying B-cell populations and immunoglobulin production. Individual B cells generally express immunoglobulins containing one light-chain class, whereas polyclonal populations contain both kappa- and lambda-expressing cells. A substantial restriction toward one light-chain class can therefore provide useful information when investigating clonal B-cell or plasma-cell populations.

Lambda light-chain detection is relevant to immunology, B-cell biology, antibody research, and studies of lymphoid and plasma-cell disorders. Free monoclonal immunoglobulin light chains have historically been referred to as Bence Jones proteins and are studied in connection with abnormal immunoglobulin production. Comparing lambda and kappa expression can further support research examining immunoglobulin light-chain distribution and B-cell clonality.

A Lambda Light Chain Antibody such as clone N10/2 provides a mouse monoclonal reagent generated using IgG purified from human serum. The antibody provides a defined reagent for investigating human lambda light-chain expression and the distribution of lambda-expressing immunoglobulins and cells. NSJ Bioreagents offers N10/2 for research examining immunoglobulin expression, light-chain restriction, B-cell biology, and related immune processes.

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

The optimal dilution of the Lambda Light Chain Antibody N10/2 for each application should be determined by the researcher.

Immunogen

IgG purified from human serum was used as the immunogen for this Lambda Light Chain Antibody N10/2.

Storage

Store the Lambda Light Chain Antibody N10/2 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

IGL antibody, Immunoglobulin lambda light chain antibody, Lambda light chain antibody, Lambda chain antibody, Ig lambda antibody, Immunoglobulin light chain lambda antibody

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