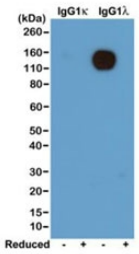
Mouse Lambda Light Chain Antibody RM110 Biotin Conjugate [clone RM110] (R20161BTN)

Catalog No.	Formulation	Size
R20161BTN-50UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	50 ug

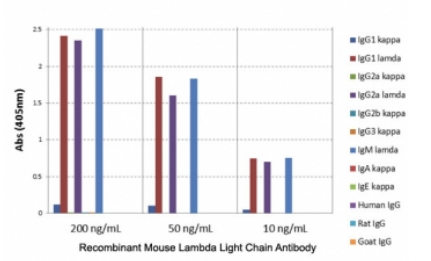
Recombinant RABBIT MONOCLONAL

Bulk quote request

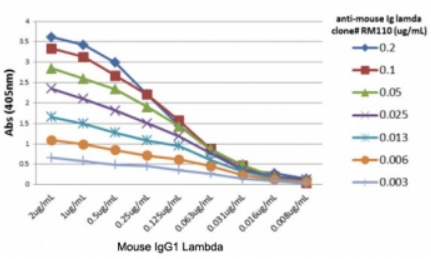
Availability	1-3 business days
Species Reactivity	Mouse
Format	Biotin Conjugate
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM110
Purity	Protein A purified from animal origin-free supernatant
UniProt	P01843
Gene ID	110785
Applications	ELISA: 0.005-0.2ug/ml Western Blot (non-reduced): 0.1-0.5ug/ml
Limitations	This Mouse Lambda Light Chain Antibody RM110 Biotin Conjugate is available for research use only.



Mouse Lambda Light Chain Antibody RM110 Biotin Conjugate Specificity WB. Western blot testing of non-reduced and reduced mouse IgG1 kappa and IgG1 lambda with Mouse Lambda Light Chain Antibody clone RM110 demonstrates a strong signal for non-reduced IgG1 lambda, while mouse IgG1 kappa and the reduced samples show no detectable corresponding signal. Each lane contained 20 ng of immunoglobulin, and the antibody was tested at 0.2 ug/ml. The selective recognition demonstrates the specificity of the RM110 Biotin Conjugate for lambda-containing mouse immunoglobulin under the tested conditions.



Mouse Lambda Light Chain Antibody RM110 Biotin Conjugate Specificity ELISA. ELISA testing demonstrates concentration-dependent recognition of mouse lambda-containing immunoglobulins by Mouse Lambda Light Chain Antibody clone RM110 at 200, 50, and 10 ng/ml. Little to no corresponding signal is observed with mouse kappa light chain or the tested human, rat, and goat IgG samples. The results demonstrate selective recognition of mouse lambda light chain by the RM110 Biotin Conjugate across the tested antibody concentrations.



Mouse Lambda Light Chain Antibody RM110 Biotin Conjugate Titration ELISA. ELISA titration against decreasing amounts of immobilized mouse IgG1 lambda demonstrates concentration-dependent binding by Mouse Lambda Light Chain Antibody clone RM110 across serial antibody dilutions. Higher antigen-coating amounts produce stronger absorbance signals, with progressively lower responses as the amount of immobilized mouse IgG1 lambda decreases. The titration demonstrates dose-dependent recognition of mouse lambda-containing immunoglobulin by the RM110 Biotin Conjugate.

Description

Mouse Lambda Light Chain Antibody clone RM110 Biotin Conjugate is a recombinant rabbit monoclonal reagent for detecting lambda light chains of murine immunoglobulins. Immunoglobulin molecules contain two identical heavy chains and two identical light chains, with the light chains belonging to either the kappa or lambda class. Lambda light chains contribute to the antigen-binding region of antibodies and occur in immunoglobulins produced by mouse B cells and antibody-secreting plasma cells.

Immunoglobulin light-chain expression contributes to antibody diversity and provides a means of distinguishing antibody populations according to their light-chain class. Mouse lambda light chains associate with immunoglobulin heavy chains to form functional antibodies and may be present within membrane-associated B-cell receptors or secreted immunoglobulins. Selective detection of lambda light chain can therefore support studies of murine immunoglobulin expression and antibody composition.

Biotin conjugation provides a versatile detection format for immunoassays using avidin- or streptavidin-based detection systems. The strong interaction between biotin and avidin or streptavidin enables biotin-conjugated antibodies to be incorporated into assay designs without requiring an anti-rabbit secondary antibody. A biotinylated Mouse Lambda Antibody can consequently support detection strategies in which direct incorporation of the primary antibody into a biotin-based detection system is advantageous.

RM110 recognizes the lambda light chain of mouse immunoglobulins and shows no detectable ELISA cross-reactivity with mouse kappa light chain or the tested human, rat, and goat IgG preparations. The clone also recognizes non-reduced mouse IgG1 lambda by Western blot. These characteristics support selective detection of mouse lambda-containing immunoglobulins while distinguishing them from the tested kappa and non-mouse immunoglobulins.

A Mouse Lambda Light Chain Antibody such as the RM110 Biotin Conjugate provides a recombinant monoclonal reagent generated using mouse IgM lambda as the immunogen. The conjugated format combines the documented mouse lambda specificity of clone RM110 with biotin-based detection for immunoglobulin characterization and light-chain research. NSJ Bioreagents offers this reagent for research examining murine lambda-containing immunoglobulins and related immune processes.

For the unconjugated form of this clone, see our Mouse Lambda Light Chain Antibody RM110 / Mouse Lambda Antibody page.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Mouse Lambda Light Chain Antibody RM110 Biotin Conjugate may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Mouse IgM Lambda was used as the immunogen for this recombinant Mouse Lambda Light Chain Antibody RM110 Biotin Conjugate.

Storage

Store the Mouse Lambda Light Chain Antibody RM110 Biotin Conjugate at -20oC.

Alternate Names

Mouse lambda light chain antibody, Mouse lambda antibody, Murine lambda light chain antibody, Murine lambda antibody, Mouse Ig lambda antibody, Mouse immunoglobulin lambda antibody

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