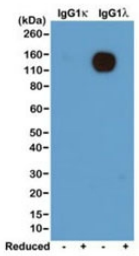
Mouse Lambda Light Chain Antibody RM110 / Mouse Lambda Antibody [clone RM110] (R20161)

Catalog No.	Formulation	Size
R20161-100UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ug

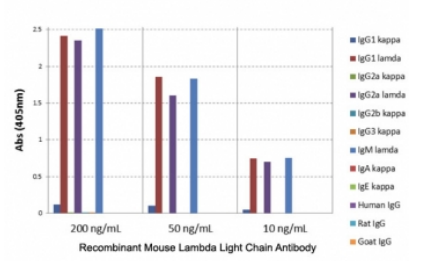
Recombinant RABBIT MONOCLONAL

Bulk quote request

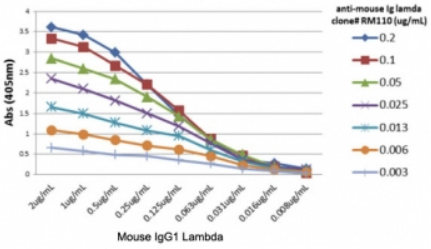
Availability	1-3 business days
Species Reactivity	Mouse
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM110
Purity	Protein A purified from animal origin-free supernatant
UniProt	P01843
Gene ID	110785
Applications	ELISA: 0.005-0.2ug/ml Western Blot (non-reduced):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



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



Mouse Lambda Light Chain Antibody RM110 Immunoglobulin Specificity ELISA. ELISA testing with Mouse Lambda Light Chain Antibody clone RM110 demonstrates concentration-dependent recognition of mouse lambda-containing immunoglobulins 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 Mouse Lambda Antibody across the tested antibody concentrations.



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

Description

Mouse Lambda Light Chain Antibody clone RM110 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 can 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 populations of immunoglobulins 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. A Mouse Lambda Antibody can therefore support studies examining murine immunoglobulin expression and antibody composition.

Selective recognition of lambda light chain is useful when distinguishing lambda-containing mouse immunoglobulins from those containing kappa chains. This distinction can support immunoglobulin characterization, antibody production studies, hybridoma research, and assays designed to identify or quantify antibodies according to their light-chain class. Species-specific recognition can provide additional differentiation when samples or experimental systems contain immunoglobulins from multiple species.

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 antibody also recognizes non-reduced mouse IgG1 lambda by Western blot, providing complementary evidence for recognition of lambda-containing murine immunoglobulin. Its documented specificity makes RM110 useful for selective detection of mouse lambda light chains in immunoglobulin research.

A Mouse Lambda Light Chain Antibody such as clone RM110 provides a recombinant monoclonal reagent generated using mouse IgM lambda as the immunogen. The antibody is suited to research requiring discrimination between mouse lambda and kappa light chains and selective detection of murine lambda-containing immunoglobulins. NSJ Bioreagents offers RM110 for studies of antibody characterization, immunoglobulin light-chain expression, and related immunology research.

Explore our Lambda Antibody page for additional antibodies targeting human immunoglobulin lambda light chains and related detection reagents.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Mouse Lambda Light Chain Antibody RM110 / Mouse Lambda Antibody 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.

Storage

Store the Mouse Lambda Light Chain Antibody RM110 at -20oC (with glycerol) or aliquot and store at -20oC (without glycerol).

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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