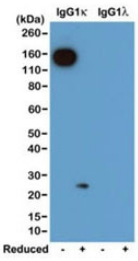
Mouse Kappa Light Chain Antibody for ELISA RM103 / Rabbit Monoclonal [clone RM103] (R20162)

Catalog No.	Formulation	Size
R20162-100UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ug

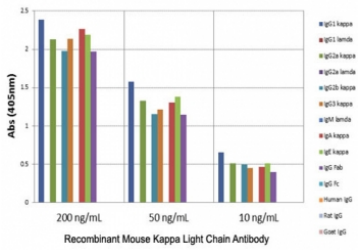
Recombinant RABBIT MONOCLONAL

Bulk quote request

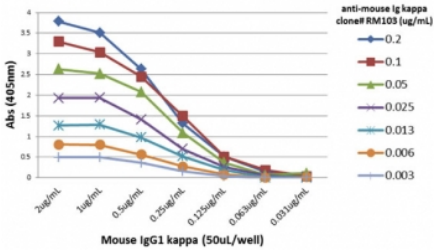
Availability	1-3 business days
Species Reactivity	Mouse
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM103
Purity	Protein A purified from animal origin-free supernatant
UniProt	P01837
Gene ID	16071
Applications	ELISA : 0.005-0.2ug/ml Western Blot (non-reduced) : 0.1-0.5ug/ml
Limitations	This Mouse Kappa Light Chain Antibody for ELISA RM103 is available for research use only.



Mouse Kappa Light Chain Antibody RM103 Specificity WB. Western blot testing of non-reduced (-) and reduced (+) mouse IgG1 kappa and IgG1 lambda with Mouse Kappa Light Chain Antibody clone RM103 demonstrates strong recognition of non-reduced IgG1 kappa at approximately 150 kDa and weaker recognition of the reduced kappa light chain near 25 kDa. No corresponding bands are visible in the IgG1 lambda lanes. The results demonstrate selective recognition of mouse kappa light chain under the tested conditions.



Mouse Kappa Light Chain Antibody RM103 Species Specificity ELISA. ELISA testing of Mouse Kappa Light Chain Antibody clone RM103 against a panel of immunoglobulins demonstrates strong recognition of mouse kappa-containing immunoglobulins at 200 ng/ml, with progressively lower signals at 50 and 10 ng/ml. Mouse lambda and the tested human, rat, and goat IgG samples show minimal reactivity by comparison, demonstrating preferential detection of mouse kappa light chain.



Mouse Kappa Light Chain Antibody RM103 Titration ELISA. ELISA titration of Mouse Kappa Light Chain Antibody clone RM103 against immobilized mouse IgG1 kappa demonstrates concentration-dependent detection across serial antibody dilutions. Higher concentrations of RM103 produce stronger signals, with the response progressively decreasing as the antibody is diluted and converging toward background at the lowest concentrations. The titration demonstrates dose-responsive recognition of mouse kappa light chain across the tested ELISA conditions.

Description

Mouse Kappa Light Chain Antibody recognizes the kappa light chain found in murine immunoglobulins. Immunoglobulins consist of two identical heavy chains and two identical light chains, with each light chain belonging to either the kappa or lambda class. The variable regions of the heavy and light chains together form the antigen-binding site, while the light-chain constant region contributes to the overall structure of the immunoglobulin molecule.

Kappa light chains are components of multiple immunoglobulin classes and therefore provide a useful target when detection is intended to be independent of heavy-chain isotype. Recognition of mouse kappa can be useful in immunoglobulin research, antibody characterization, assay development, and experiments requiring selective detection of murine antibodies carrying a kappa light chain. Distinguishing kappa from lambda light chains can also help characterize antibody populations and monoclonal reagents.

Clone RM103 is a recombinant rabbit monoclonal antibody developed for selective recognition of mouse kappa light chain. In specificity testing, RM103 reacted with the kappa light chain of mouse immunoglobulins while showing no detected cross-reactivity with mouse lambda light chain or human, rat, and goat IgG under the reported ELISA conditions. The antibody also recognizes non-reduced mouse IgG1 kappa, with weaker recognition of the reduced kappa light chain.

The defined recombinant monoclonal format of clone RM103 provides a consistent reagent for research requiring mouse immunoglobulin kappa detection. Its ability to distinguish mouse kappa from lambda makes it particularly useful when light-chain specificity is important. NSJ Bioreagents supplies this reagent for research involving murine immunoglobulins and antibody detection. A Mouse Kappa Light Chain Antibody can support selective detection and characterization of kappa-containing mouse immunoglobulins.

Explore our Immunology Antibodies page for additional antibodies targeting immunoglobulins and proteins involved in humoral immune responses.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Mouse Kappa Light Chain Antibody for ELISA RM103 may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Mouse IgG was used as the immunogen for this Mouse Kappa Light Chain Antibody for ELISA RM103.

Storage

Store the Mouse Kappa Light Chain Antibody for ELISA RM103 at -20oC (with glycerol) or aliquot and store at -20oC (without glycerol).

Alternate Names

Mouse Kappa Light Chain antibody, Mouse Kappa Chain antibody, Mouse Immunoglobulin Kappa Light Chain antibody, Mouse Ig Kappa Light Chain antibody, Mouse IGKC antibody, Anti-Mouse Kappa antibody

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