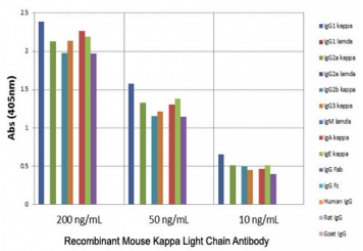
Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate / Biotin Anti-Mouse Kappa Antibody [clone RM103] (R20162BTN)

Catalog No.	Formulation	Size
R20162BTN-50UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	50 ug

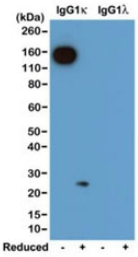
Recombinant RABBIT MONOCLONAL

Bulk quote request

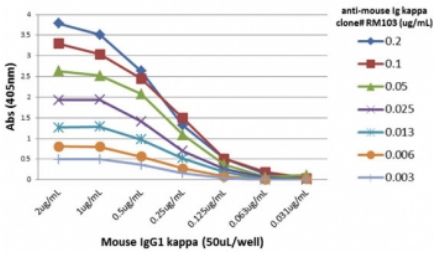
Availability	1-3 business days
Species Reactivity	Mouse
Format	Biotin Conjugate
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM103
Purity	Protein A purified from animal origin-free supernatant
UniProt	P01837
Gene ID	16071
Applications	ELISA: 0.005-0.2ug/ml Western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



Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate Specificity ELISA. ELISA testing of Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate against different 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 immunoglobulins show minimal reactivity by comparison. The results demonstrate preferential recognition of mouse kappa light chain by this Biotin Anti-Mouse Kappa Antibody.



Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate Specificity WB. Western blot testing of non-reduced (-) and reduced (+) mouse IgG1 kappa and IgG1 lambda with Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate demonstrates strong recognition of non-reduced IgG1 kappa at approximately 150-160 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 by this Biotin Anti-Mouse Kappa Antibody under the tested conditions.



Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate Titration ELISA. ELISA titration of Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate against increasing amounts of immobilized mouse IgG1 kappa demonstrates concentration-dependent detection across serial antibody dilutions. Higher concentrations of RM103 produce stronger signals, with responses progressively decreasing as the antibody is diluted and approaching background at the lowest concentrations. This Biotin Anti-Mouse Kappa Antibody demonstrates dose-responsive recognition of mouse kappa light chain across the tested ELISA conditions.

Description

Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate recognizes the kappa light chain of murine immunoglobulins. Immunoglobulins contain two identical heavy chains and two identical light chains, with each light chain classified as either kappa or lambda. Because light-chain identity is independent of immunoglobulin heavy-chain class, selective recognition of mouse kappa provides a useful approach for detecting kappa-containing mouse antibodies across different immunoglobulin isotypes.

Biotin conjugation provides a flexible detection format based on the high-affinity interaction between biotin and avidin or streptavidin. Biotinylated antibodies can be combined with appropriately labeled avidin or streptavidin reagents, allowing the detection chemistry to be selected according to the experimental system. This format is particularly useful in immunoassays and other applications where a biotin-based detection system is preferred.

Clone RM103 is a recombinant rabbit monoclonal antibody that selectively recognizes mouse kappa light chain. Reported specificity testing demonstrates recognition of mouse kappa-containing immunoglobulins without detected cross-reactivity to mouse lambda light chain or the tested human, rat, and goat IgG. RM103 also recognizes non-reduced mouse IgG1 kappa and shows weaker recognition of the reduced kappa light chain.

This biotin-conjugated form of clone RM103 combines defined recombinant monoclonal recognition with a biotin label for avidin- or streptavidin-based detection systems. NSJ Bioreagents supplies this reagent for research involving murine immunoglobulins, antibody characterization, and selective kappa light-chain detection. A Mouse Kappa Light Chain Antibody in biotin-conjugated format provides an alternative when direct incorporation into a biotin-based detection system is desired.

For the unconjugated form of clone RM103, see our Mouse Kappa Light Chain Antibody for ELISA RM103 page.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate 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 RM103 Biotin Conjugate.

Storage

Store the Mouse Kappa Light Chain Antibody RM103 Biotin Conjugate at -20oC.

Alternate Names

Mouse Kappa Light Chain antibody, Mouse Kappa Chain antibody, Mouse Immunoglobulin Kappa Light Chain antibody, Mouse Ig Kappa Light Chain antibody, Biotin Anti-Mouse Kappa antibody, Biotinylated Mouse Kappa Light Chain antibody

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