

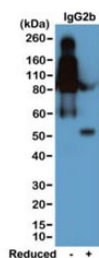
Mouse IgG2b Antibody for ELISA / Anti-Mouse IgG2b ELISA Detection Antibody [clone RM108] (R20167)

Catalog No.	Formulation	Size
R20167-100UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ug

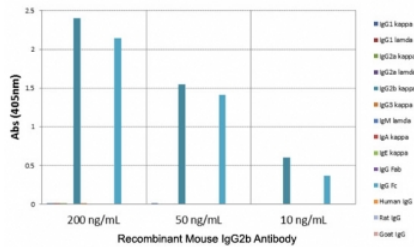
Recombinant **RABBIT MONOCLONAL**

[Bulk quote request](#)

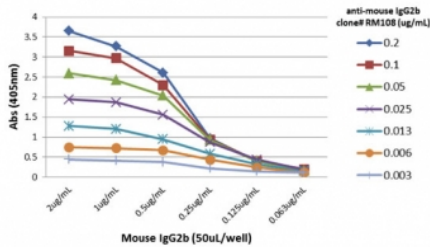
Availability	1-3 business days
Species Reactivity	Mouse
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM108
Purity	Protein A purified from animal origin-free supernatant
UniProt	P01867
Gene ID	16016
Applications	ELISA : 0.005ug/ml-0.2ug/ml Western Blot (stronger On Non-reduced Samples) : 0.1-0.5ug/ml
Limitations	This Mouse IgG2b Antibody for ELISA / Anti-Mouse IgG2b ELISA Detection Antibody is available for research use only.



Mouse IgG2b Antibody for WB. Western blot analysis of non-reduced (-) and reduced (+) mouse IgG2b (20 ng per lane) using clone RM108 at 0.2 ug/mL demonstrates strong detection of intact IgG2b at approximately 150 kDa under non-reducing conditions, with a weaker band near 50 kDa corresponding to the heavy chain under reducing conditions. The stronger signal observed in the non-reduced sample is consistent with recognition of native immunoglobulin structure and supports selective detection of mouse IgG2b. These results support the use of this Mouse IgG2b Antibody / Anti-Mouse IgG2b Detection Antibody for reliable detection in immunoassay applications.



Mouse IgG2b Antibody for ELISA Subclass Specificity Analysis. ELISA analysis of mouse immunoglobulins demonstrates that clone RM108 selectively recognizes Mouse IgG2b, with strong signal observed across tested concentrations. No cross-reactivity is detected with IgG1, IgG2a, IgG3, IgM, IgA, or IgE, or with human, rat, or goat IgG. The binding profile is consistent with Fc region-directed recognition and supports selective detection of IgG2b independent of light chain composition. These results support the use of this Mouse IgG2b Antibody for ELISA / Anti-Mouse IgG2b ELISA Detection Antibody for precise subclass-specific detection in ELISA-based immunoassays.



Mouse IgG2b Antibody for ELISA Titration Curve. ELISA titration analysis using plates coated with serial dilutions of mouse IgG2b demonstrates strong, concentration-dependent binding of clone RM108 across a broad dynamic range. Signal intensity decreases proportionally with antibody dilution, confirming high sensitivity and consistent binding performance. Detection was performed using an alkaline phosphatase-conjugated anti-rabbit IgG secondary antibody, supporting reliable quantification of Mouse IgG2b in ELISA-based immunoassays.

Description

Mouse immunoglobulin gamma 2b (IgG2b) is a distinct IgG subclass in murine systems that contributes to both effector and regulatory immune responses. IgG2b exhibits Fc receptor binding and complement activation, although typically at levels intermediate between IgG2a and IgG1, placing it functionally between strongly inflammatory and more regulatory antibody responses. IgG2b is frequently co-expressed with other IgG subclasses during antigen-driven immune responses and provides important insight into immune response balance and antibody-mediated function in preclinical models.

Mouse IgG2b Antibody for ELISA / Anti-Mouse IgG2b ELISA Detection Antibody is specifically optimized for high-sensitivity and subclass-specific detection of IgG2b in ELISA-based immunoassays. Mouse IgG2b antibody, also known as anti-IgG2b antibody or anti-mouse IgG2b subclass antibody, is widely used to quantify IgG2b responses and to distinguish IgG2b from other mouse IgG subclasses such as IgG1, IgG2a, IgG2c, and IgG3. This recombinant rabbit monoclonal antibody clone RM108 provides strong and selective recognition of the mouse IgG2b constant region, enabling accurate subclass discrimination across complex biological samples.

In ELISA workflows, IgG2b detection is particularly valuable for assessing immune response complexity, antibody class switching patterns, and the relative contribution of different subclasses within mixed antibody populations. The Mouse IgG2b Antibody for ELISA / Anti-Mouse IgG2b ELISA Detection Antibody functions effectively as a detection reagent in sandwich ELISA formats, binding specifically to IgG2b captured on assay plates while minimizing background from other immunoglobulin subclasses. This specificity supports accurate quantification in samples where multiple IgG subclasses are present and must be distinguished.

Clone RM108 antibody targets the constant region of mouse IgG2b heavy chains, ensuring selective detection without cross-reactivity to other IgG subclasses including IgG1, IgG2a, IgG2c, and IgG3. The recombinant rabbit monoclonal format provides high affinity binding, excellent reproducibility, and minimal lot-to-lot variability, supporting consistent ELISA performance across experiments. The Mouse IgG2b Antibody for ELISA / Anti-Mouse IgG2b ELISA Detection Antibody is well suited for quantitative immunoassays requiring reliable subclass-specific detection and consistent signal generation.

Detection of IgG2b is widely applied in immunology research, vaccine studies, and antibody response profiling in murine systems. Because IgG2b reflects intermediate effector function and is often co-regulated with other subclasses, accurate measurement provides valuable insight into immune response dynamics and functional antibody diversity. This antibody supports these applications by enabling robust detection of IgG2b immunoglobulins in ELISA-based systems requiring high specificity, sensitivity, and reproducibility.

This antibody is part of a broader [immunoglobulin detection antibody collection](#), including reagents for Ig classes and light chains across multiple species and immunoassay formats.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Mouse IgG2b Antibody for ELISA / Anti-Mouse IgG2b ELISA Detection Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Mouse IgG2b was used as the immunogen for this recombinant Mouse IgG2b antibody.

Storage

Store the recombinant Mouse IgG2b antibody at -20oC (with glycerol) or aliquot and store at -20oC (without glycerol).

Alternate Names

Anti-Mouse IgG2b ELISA antibody, Mouse IgG2b detection antibody, IgG2b ELISA detection antibody, Immunoglobulin G2b ELISA antibody, Mouse IgG2b subclass antibody