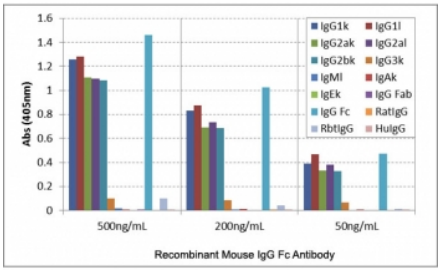
Mouse IgG Fc Antibody for ELISA / Anti-Mouse IgG Fc Detection Antibody [clone RMG06] (R20175)

Catalog No.	Formulation	Size
R20175-100UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ug

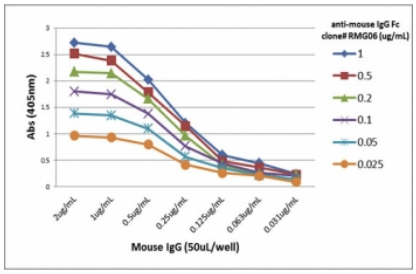
Recombinant GOAT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Purified
Host	Goat
Clonality	Recombinant Goat Monoclonal
Isotype	Goat IgG
Clone Name	RMG06
Purity	Protein G purified from animal origin-free supernatant
UniProt	N/A
Gene ID	N/A
Applications	ELISA: 0.05ug/ml-1ug/ml
Limitations	This Mouse IgG Fc Antibody for ELISA / Anti-Mouse IgG Fc Detection Antibody is available for research use only.



Mouse IgG Fc Antibody for ELISA Subclass Specificity Analysis. ELISA analysis of mouse immunoglobulin subclasses demonstrates that clone RMG06 recognizes the Fc region of mouse IgG1, IgG2a, and IgG2b with strong signal, with only minimal reactivity observed toward IgG3. No detectable binding is observed with IgM, IgA, or IgE, nor with IgG from human, rat, or rabbit sources. This result confirms Fc-region-specific recognition and strong subclass selectivity for mouse IgG. The Mouse IgG Fc Antibody for ELISA / Anti-Mouse IgG Fc Detection Antibody enables accurate detection of mouse IgG in complex and multi-species samples, supporting high-specificity ELISA workflows with low background.



Mouse IgG Fc Antibody for ELISA Titration Curve. ELISA titration analysis using plates coated with serial dilutions of mouse IgG demonstrates strong, concentration-dependent binding of clone RMG06 across a broad dynamic range. Signal intensity decreases proportionally with both antigen concentration and antibody dilution, confirming sensitive and reproducible Fc-region-specific recognition of mouse IgG. Detection was performed using an alkaline phosphatase-conjugated anti-goat IgG secondary antibody. This result supports reliable quantification and consistent performance of the Mouse IgG Fc Antibody for ELISA / Anti-Mouse IgG Fc Detection Antibody in ELISA-based assays.

Description

Mouse immunoglobulin G (IgG) is one of the most widely used antibody classes in research, serving as both a primary antibody species and a common component in assay development workflows. Because mouse-derived antibodies are frequently used across ELISA, western blot, and immunoassay systems, accurate and consistent detection of mouse IgG is essential for assay validation, antibody quantification, and experimental reproducibility. Detection strategies that target conserved regions of IgG are particularly valuable for ensuring uniform signal generation across diverse antibody populations and experimental conditions.

Mouse IgG antibody, also referred to as anti-mouse IgG antibody or mouse immunoglobulin G antibody, is commonly used for detection of mouse-derived antibodies in ELISA-based systems. Mouse IgG Fc Antibody for ELISA / Anti-Mouse IgG Fc Detection Antibody is specifically optimized for selective recognition of the Fc region of mouse IgG, enabling consistent detection independent of antigen-binding variability. Fc-directed detection ensures uniform recognition across mouse IgG subclasses, making it especially advantageous for assay standardization, antibody quantification, and workflows requiring reproducible and comparable results across experiments.

This recombinant goat monoclonal antibody, clone RMG06 antibody, recognizes the Fc region of mouse IgG with high specificity. Fc-region targeting allows detection of mouse antibodies regardless of antigen specificity, supporting reliable signal generation across diverse assay formats. The goat monoclonal format provides strong binding stability, reduced lot-to-lot variability, and consistent performance, which is particularly important in ELISA systems requiring low background and high reproducibility. This enables more precise measurement of antibody levels in both purified samples and complex biological matrices such as serum or cell culture supernatants.

In ELISA workflows, Fc-specific mouse IgG detection antibodies are widely used for detection of mouse primary antibodies in indirect ELISA assays, measurement of antibody titers, and assay normalization. Because the Fc region is conserved across mouse IgG subclasses including IgG1, IgG2a, IgG2b, and IgG3, detection remains consistent across different antibody populations, enabling accurate quantification and reliable comparison between samples. This is particularly important in assay development, where consistent detection across multiple antibody clones or experimental conditions is required.

Detection of mouse IgG is broadly applied in immunology research, antibody production, and assay optimization. Fc-specific detection antibodies support these applications by enabling sensitive and specific measurement of mouse IgG independent of antigen-binding variability. This antibody provides a reliable tool for ELISA-based systems requiring precise quantification, consistent signal generation, and robust performance across a wide range of experimental conditions.

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 IgG Fc Antibody for ELISA / Anti-Mouse IgG Fc Detection Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Mouse IgG was used as the immunogen for this recombinant Mouse IgG Fc antibody.

Storage

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

Alternate Names

Anti-mouse IgG Fc antibody, Mouse IgG Fc detection antibody, Mouse immunoglobulin G Fc antibody, Goat anti-mouse IgG Fc antibody, Fc-specific mouse IgG antibody

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