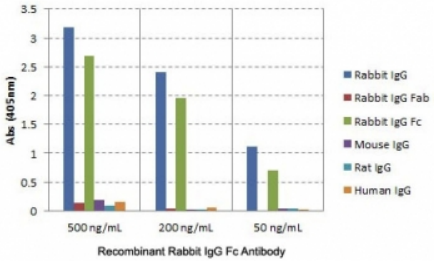
Rabbit IgG Fc Antibody for ELISA Biotin Conjugate / Biotinylated Anti-Rabbit IgG Fc Detection Antibody [clone RMG02] (R20173BTN)

Catalog No.	Formulation	Size
R20173BTN-50UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	50 ug

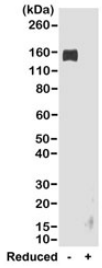
Recombinant GOAT MONOCLONAL

Bulk quote request

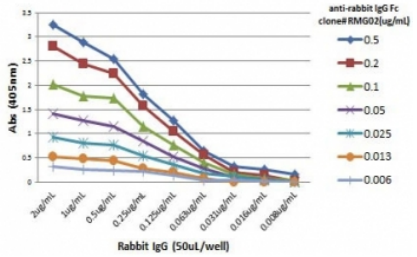
Availability	1-3 business days
Species Reactivity	Rabbit
Format	Biotin Conjugate
Host	Goat
Clonality	Recombinant Goat Monoclonal
Isotype	Goat IgG
Clone Name	RMG02
Purity	Protein G purified from animal origin-free supernatant
Gene ID	N/A
Applications	ELISA: 0.01ug/ml-0.5ug/ml Western Blot (non-reduced): 0.1-0.5ug/ml
Limitations	This Rabbit IgG Fc Antibody for ELISA Biotin Conjugate / Biotinylated Anti-Rabbit IgG Fc Detection Antibody is available for research use only.



Rabbit IgG Fc Antibody Biotin ELISA Species Specificity Analysis. ELISA analysis of IgG from multiple species demonstrates that the parent clone RMG02 antibody selectively recognizes rabbit IgG and rabbit IgG Fc, with strong signal observed across tested concentrations, while no detectable binding is observed with human, mouse, or rat IgG. This binding profile reflects Fc-region-specific recognition and strict species selectivity and is representative of the performance retained in the biotinylated format of the Rabbit IgG Fc Antibody for ELISA / Biotinylated Anti-Rabbit IgG Fc Detection Antibody.



Rabbit IgG Fc Antibody Biotin WB Analysis. Western blot analysis of rabbit IgG under non-reducing (-) and reducing (+) conditions demonstrates that the parent clone RMG02 antibody detects a band at approximately 150 kDa in the non-reduced sample, consistent with intact rabbit IgG. No significant signal is observed under reducing conditions, supporting Fc-region-dependent recognition that is sensitive to structural disruption. Lane 1: non-reduced rabbit IgG, Lane 2: reduced rabbit IgG. This binding profile reflects Fc-specific recognition of native IgG and is representative of the performance retained in the biotinylated format of the Rabbit IgG Fc Antibody / Biotinylated Anti-Rabbit IgG Fc Detection Antibody.



Rabbit IgG Fc Antibody Biotin ELISA Titration Curve. ELISA titration analysis using plates coated with serial dilutions of rabbit IgG demonstrates strong, concentration-dependent binding of clone RMG02 across a broad dynamic range. Signal intensity decreases proportionally with both antigen concentration and antibody dilution, confirming consistent Fc-region-specific recognition of rabbit IgG. Detection was performed using an alkaline phosphatase-conjugated anti-goat IgG secondary antibody. This titration profile reflects the intrinsic binding performance of the parent clone RMG02 antibody and is representative of the characteristics retained in the biotinylated format of the Rabbit IgG Fc Antibody for ELISA / Biotinylated Anti-Rabbit IgG Fc Detection Antibody.

Description

Rabbit immunoglobulin G (IgG) is widely used as a primary antibody species in immunoassays and ELISA-based detection systems, making its accurate and consistent detection essential for assay performance and reproducibility. Because rabbit antibodies are commonly used across experimental workflows, detection strategies that target conserved regions of IgG are critical for ensuring uniform signal generation independent of antigen specificity.

Rabbit IgG antibody, also referred to as anti-rabbit IgG antibody or rabbit immunoglobulin G antibody, is frequently used for detection of rabbit-derived antibodies in ELISA-based systems. Rabbit IgG Fc Antibody for ELISA Biotin Conjugate / Biotinylated Anti-Rabbit IgG Fc Detection Antibody is specifically optimized for selective recognition of the Fc region of rabbit IgG while enabling enhanced signal amplification through biotin-streptavidin detection systems. Fc-directed detection ensures uniform recognition across rabbit IgG molecules, supporting accurate quantification and assay standardization across diverse antibody populations.

This recombinant goat monoclonal antibody, clone RMG02 antibody, recognizes the Fc region of rabbit IgG with high specificity. The goat monoclonal format provides strong binding stability and reproducibility, while biotin conjugation enables interaction with streptavidin-linked enzymes to increase assay sensitivity and dynamic range. This combination is particularly advantageous in ELISA workflows requiring detection of low-abundance antibodies or enhanced signal amplification with low background.

In ELISA workflows, biotinylated Fc-specific rabbit IgG detection antibodies are widely used in sandwich ELISA and high-sensitivity detection formats. Because the Fc region is conserved within rabbit IgG molecules, detection remains consistent across different antibody populations, enabling reproducible signal generation and precise quantification in complex biological samples. This antibody supports these applications by enabling sensitive, amplified detection of rabbit IgG Fc regions in ELISA-based systems requiring high performance, consistency, and low variability.

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 Rabbit IgG Fc Antibody for ELISA

Biotin Conjugate / Biotinylated Anti-Rabbit IgG Fc Detection Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Rabbit IgG was used as the immunogen for this recombinant Rabbit IgG Fc Antibody for ELISA Biotin Conjugate.

Storage

Store the Rabbit IgG Fc Antibody for ELISA Biotin Conjugate at -20oC.

Alternate Names

Biotin anti-rabbit IgG Fc antibody, Rabbit IgG Fc detection antibody, Goat anti-rabbit IgG Fc antibody, Fc-specific rabbit IgG antibody, Rabbit IgG Fc ELISA antibody

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