

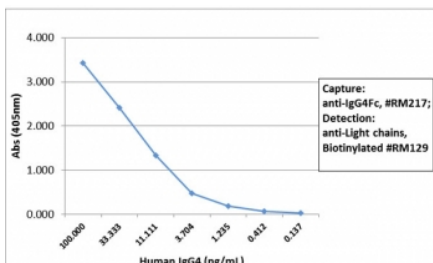
Human IgG4 Fc Antibody for ELISA / Biotinylated Anti-IgG4 Fc Detection Antibody [clone RM217] (R20191BTN)

Catalog No.	Formulation	Size
R20191BTN-50UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	50 ug

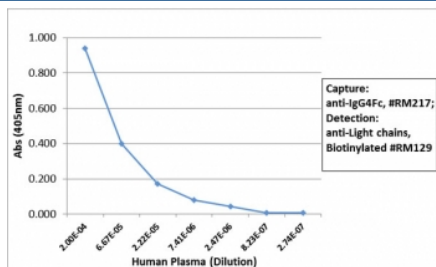
Recombinant **RABBIT MONOCLONAL**

[Bulk quote request](#)

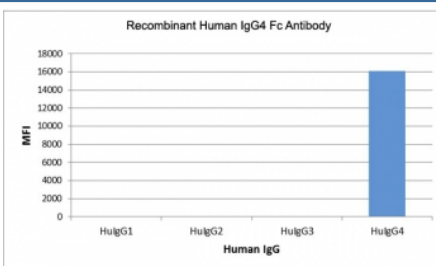
Availability	1-3 business days
Species Reactivity	Human
Format	Biotin Conjugate
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM217
Purity	Protein A purified from animal origin-free supernatant
UniProt	P01861
Gene ID	3503
Applications	ELISA : 50ng/well-200ng/well (Capture); 0.05-0.2ug/ml (Detection)
Limitations	This Human IgG4 Fc Antibody for ELISA / Biotinylated Anti-IgG4 Fc Detection Antibody is available for research use only.



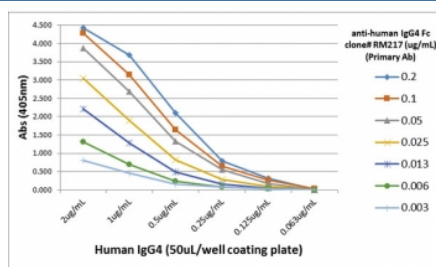
Human IgG4 Fc Antibody Biotin Sandwich ELISA Human IgG4. Sandwich ELISA analysis using purified human IgG4 demonstrates that the parent clone RM217 antibody functions effectively as a capture antibody for IgG4 / IGHG4, with signal intensity decreasing proportionally with antigen concentration, indicating strong and concentration-dependent detection. Captured IgG4 was detected using a biotinylated anti-human light chains (kappa + lambda) antibody (clone RM129), followed by alkaline phosphatase-conjugated streptavidin for signal development. This binding profile reflects Fc-specific recognition of IgG4 and is representative of the performance retained in the biotinylated format of the Human IgG4 Fc Antibody for ELISA / Biotinylated Anti-IgG4 Fc Detection Antibody.



Human IgG4 Fc Antibody Biotin Sandwich ELISA Human Plasma. Sandwich ELISA analysis demonstrates that the parent clone RM217 antibody functions effectively as a capture antibody for IgG4 / IGHG4 in human plasma, with signal intensity decreasing proportionally with dilution, indicating concentration-dependent detection. Captured IgG4 was detected using a biotinylated anti-human light chains (kappa + lambda) antibody (clone RM129), followed by alkaline phosphatase-conjugated streptavidin for signal development. This binding profile reflects Fc-specific recognition of IgG4 and is representative of the performance retained in the biotinylated format of the Human IgG4 Fc Antibody for ELISA / Biotinylated Anti-IgG4 Fc Detection Antibody.



Human IgG4 Fc Antibody Biotin ELISA Subclass Specificity Analysis. ELISA analysis of human IgG subclasses demonstrates that the parent clone RM217 antibody selectively recognizes IgG4 / IGHG4, with strong signal observed for IgG4 and no detectable binding to IgG1, IgG2, or IgG3. This binding profile reflects Fc-region-specific recognition and strict subclass selectivity and is representative of the performance retained in the biotinylated format of the Human IgG4 Fc Antibody for ELISA / Biotinylated Anti-IgG4 Fc Detection Antibody.



streptavidin-linked enzymes, increasing assay sensitivity and expanding dynamic range, particularly in low-abundance or complex samples such as serum or plasma. Because the Fc region is conserved within IgG4 molecules, detection remains uniform across antibody populations, supporting reproducible and reliable signal generation.

Detection of IgG4 is widely applied in immunology research, allergy studies, and therapeutic antibody development. IgG4 is frequently associated with regulatory immune responses and long-term antigen exposure, and its accurate measurement provides important insight into antibody subclass distribution, immune tolerance, and biologic drug responses. This antibody supports these applications by enabling sensitive and specific detection of the IgG4 Fc region in ELISA-based systems requiring enhanced signal amplification, low background, and consistent performance.

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 Human IgG4 Fc Antibody for ELISA / Biotinylated Anti-IgG4 Fc Detection Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Peptide corresponding to the Fc region of human IgG4 was used as the immunogen for this biotinylated recombinant Human IgG4 Fc antibody.

Storage

Store the recombinant Human IgG4 Fc antibody at -20oC.

Alternate Names

Biotin anti-IgG4 Fc antibody, IgG4 Fc detection antibody, Human IgG4 Fc antibody, IgG4 constant region antibody, Fc-specific IgG4 antibody