HUMAN IgG whole molecule Biotin conjugated - 009-0602

Code: 009-0602 **Size:** 1 mg

Product Description: HUMAN IgG whole molecule Biotin conjugated - 009-0602

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Lyophilized

Label	Biotin
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	1.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Human IgG whole molecule Biotin conjugated is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	Human IgG Biotin conjugation, Human immunoglobulin G, Vitamin H, coenzyme R
Application Note	Human IgG whole molecule Biotin conjugated can be utilized as a control reagent in both Western Blotting and ELISA format experiments.
Background	Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsinization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present. This Human IgG whole molecule is conjugated to biotin (Vitamin H), a small biomolecule that has a large affinity for avidin and streptavidin.
Purity And Specificity	Human IgG whole molecule Biotin conjugated was prepared from normal serum delipidation, salt fractionation, ion exchange chromatography followed by extensive dialysis against the buffer stated above. Human IgG whole molecule Biotin conjugated was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Human IgG and anti-Human Serum.
Assay Dilutions	User Optimized
ELISA	1:5000-1:50,000
Western Blot	1:1000
Immunohistochemistry	1:500
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.

Related Products

010-0602	MOUSE IgG whole molecule Biotin conjugated - 010-0602
011-0602	RABBIT IgG whole molecule Biotin conjugated - 011-0602
017-0602	MONKEY IgG whole molecule Biotin conjugated - 017-0602
A003-03	AVIDIN PEROXIDASE Conjugated - A003-03

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