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Datasheet for 609-9602

Human IgG (H&L) Antibody Biotin Conjugated

Overview

Description:	Chicken Anti-Human IgG (H&L) Antibody Biotin Conjugated - 609-9602
Item No.:	609-9602
Size:	1 mg
Applications:	Microarray
Reactivity:	Human
Host Species:	Chicken

Product Details

Background:	Anti-Human IgG (H&L) Biotin generated in chicken detects human Immunoglobulin G (IgG), both heavy and light chains of the antibody molecule are present. It is a protein complex composed of four peptide chains — two identical heavy chains and two identical light chains arranged in a Y-shape typical of antibody monomers. Each IgG has two antigen binding sites. Representing approximately 75% of serum immunoglobulins in humans, IgG is the most abundant antibody isotype found in the circulation. IgG molecules are synthesized and secreted by plasma B cells. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
Synonyms:	Chicken Anti Human IgG Antibody Biotin Conjugate, Chicken Anti-Human IgG Biotin conjugated Antibody
Host Species:	Chicken
Specificity:	IgG (H&L)
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human

Immunogen:	Human IgG whole molecule
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Human IgG coupled to agarose. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Chicken Serum, Human IgG and Human Serum.

Application Details

Suggested Applications:	Microarray (Based on references)
Application Note:	This product has been assayed against 1.0 ug of Human IgG in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:20,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

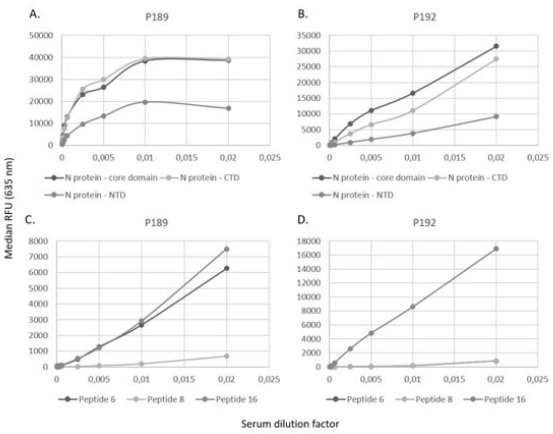

Figure
Linearity of signal as a function of serum dilution on the microarray platform. Panels A & B show data for the N core domains, N-terminal domain and C-terminal domain, for patients 189 and 192 respectively. Panels C & D show data for peptides 6, 8 & 16, for patients 189 and 192 respectively. x-axis shows the serum dilutions for each measurement. y-axis units are relative fluorescence units (RFU). Figure S4. PMID: 33925055.

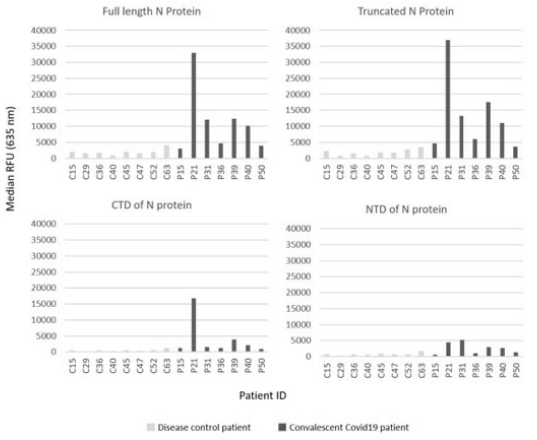

Figure
IgG responses to SARS-CoV-2 N protein variants. Four SARS-CoV-2 N protein variants were fabricated on to the microarray surface, including full-length N protein, core domain (amino acids 44-364), C-terminal domain (CTD) (amino acids 248-365) and N terminal domain (NTD) (amino acids 24-181). The IgG response from the plasma of 8 colorectal cancer (C) and 7 convalescent COVID-19 (P) patients were assessed for the 4 variants. Figure S5. PMID: 33925055.

References

- Smith M et al. Age, Disease Severity and Ethnicity Influence Humoral Responses in a Multi-Ethnic COVID-19 Cohort. *Viruses.* (2021)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.