

Datasheet for ABIN100792

Goat anti-Human IgA, IgG, IgM Antibody (HRP)**1** Image**4** Publications[Go to Product page](#)

Overview

Quantity:	2 mg
Target:	IgA, IgG, IgM
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	HRP
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Purpose:	Human IgG IgA IgM (H&L) Antibody Peroxidase Conjugated
Immunogen:	Immunogen: Anti-Human IgG IgA IgM (H&L) was produced by repeated immunization with Human IgG, IgA and IgM whole molecules in goat. Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Human IgG, Human IgA and Human IgM. This reagent is suitable for the detection of all Human immunoglobulin subclasses and chain combinations.
Characteristics:	Anti-Human IgG (H&L) Peroxidase generated in goat detects human Immunoglobulin G (IgG), both heavy and light chains of the antibody molecule are present.
Purification:	This product was prepared from polyspecific antiserum by immunoaffinity chromatography using antigens coupled to agarose beads.

Target Details

Target:	IgA, IgG, IgM
Alternative Name:	IgG + IgA + IgM (IgA, IgG, IgM Products)
Target Type:	Antibody
Background:	Anti-Human IgG IgA IgM (H&L) Peroxidase Antibody generated in goat detects human (heavy and light chain) immunoglobulin G, A, and M. Immunoglobulin G binds to antigens and can neutralize or opsonize targets, and are predominantly involved in the secondary immune response. Immunoglobulin A (IgA) is an antibody that plays a critical role in mucosal immunity. IgA has two subclasses (IgA1 and IgA2) and can exist in a dimeric form called secretory IgA (sIgA). Immunoglobulin M, or IgM, is a pentamer composed of 5 immunoglobulin molecules linked through their F(c) domain by the J chain. 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.

Application Details

Application Notes:	Application Note: Anti-Human IgG IgA IgM (H&L) Peroxidase Antibody has been tested by ELISA and western blot and is suitable for use in immunoelectrophoresis, western-blot, competitive western-blot, ELISA and competitive ELISA assays. Specific conditions for reactivity and signal detection should be optimized by the end user. Immunohistochemistry Dilution: 1:1,000 - 1:5,000 Western Blot Dilution: 1:2,000 - 1:10,000 Immunoprecipitation Dilution: 1:1,000 - 1:5,000 ELISA Dilution: 1:20,000 - 1:100,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

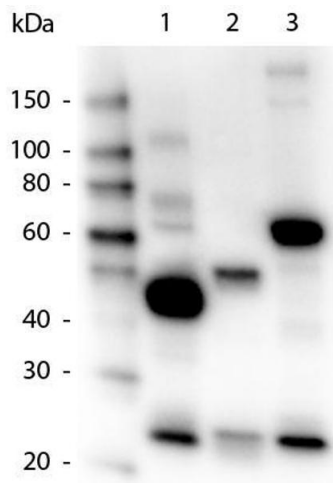
Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 1.0 mL
Concentration:	2.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free , Preservative: 0.01 % (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Preservative:	Gentamicin sulfate

Handling

Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Publications

Product cited in:	<p>Jin, Nesbitt, Yang, Chen, Horowitz, Jones, Vandergaast, Carey, Reiter, Russell, Kyratsous, Hooper, Hamilton, Ferreira, Deng, Straus, Baras, Hillyer, Luchsinger: "Seroprevalence of anti-SARS-CoV-2 antibodies in a cohort of New York City metro blood donors using multiple SARS-CoV-2 serological assays: Implications for controlling the epidemic and "Reopening"." in: PloS one, Vol. 16, Issue 4, pp. e0250319, (2021) (PubMed).</p> <p>Nesbitt, Jin, Hogan, Yang, Chen, Chan, Simon, Vargas, King, Huard, Bandy, Hillyer, Luchsinger: "Low Seroprevalence of SARS-CoV-2 in Rhode Island blood donors during may 2020 as determined using multiple serological assay formats." in: BMC infectious diseases, Vol. 21, Issue 1, pp. 871, (2021) (PubMed).</p> <p>Luchsinger, Ransegnola, Jin, Muecksch, Weisblum, Bao, George, Rodriguez, Tricoche, Schmidt, Gao, Jawahar, Pal, Schnall, Zhang, Strauss, Yazdanbakhsh, Hillyer, Bieniasz, Hatzioannou: "Serological Assays Estimate Highly Variable SARS-CoV-2 Neutralizing Antibody Activity in Recovered COVID19 Patients." in: Journal of clinical microbiology, (2020) (PubMed).</p> <p>Crawford, Tempel, Streblow, Kreklywich, Smith, Picker, Nelson, Caposio: "Human Cytomegalovirus Induces Cellular and Humoral Virus-specific Immune Responses in Humanized BLT Mice." in: Scientific reports, Vol. 7, Issue 1, pp. 937, (2018) (PubMed).</p>
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Western Blotting

Image 1. Western Blot of Goat anti-Human IgG, IgA, IgM Peroxidase Conjugated Antibody. Lane 1: Human IgG. Lane 2: Human IgA. Lane 3: Human IgM. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Peroxidase goat secondary antibody at 1:1,000 for 60 min at RT. Block: ABIN925618 for 30 min RT. Predicted/Observed size: Appropriate banding pattern for Human IgG, IgA, and IgM is shown. Other band(s): Splice variants and isoforms.