

Datasheet for 609-103-130**Human IgG IgA IgM (H&L) Antibody Peroxidase Conjugated****Overview**

Description:	Goat Anti-Human IgG IgA IgM (H&L) Antibody Peroxidase Conjugated - 609-103-130
Item No.:	609-103-130
Size:	2 mg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Goat

Product Details

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.
Synonyms:	Goat Anti-Human IgG IgA IgM Antibody peroxidase Conjugated, Goat Anti-Human IgG IgA IgM Antibody peroxidase Conjugated, Goat Anti-Human IgGAM Antibody HRP Conjugated
Host Species:	Goat
Specificity:	IgG IgA IgM
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
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Immunogen Type:	Native Protein
Immunogen:	Anti-Human IgG IgA IgM (H&L) was produced by repeated immunization with Human IgG, IgA and IgM whole molecules in goat.
Purity/Specificity:	This product was prepared from polyspecific antiserum by immunoaffinity chromatography using antigens coupled to agarose beads. 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.

Application Details

Tested Applications:	ELISA, WB
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.
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
IP:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

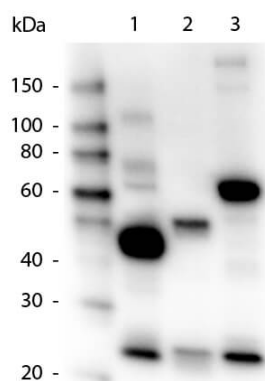
Formulation

Physical State:	Lyophilized
Concentration:	2.0 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) Gentamicin Sulfate. Do NOT add 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



Western Blot

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: MB-070 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.

References

- Alfredo Ramírez-Reveco et al. Performance estimation of two in-house ELISA assays for COVID-19 surveillance through the combined detection of anti-SARS-CoV-2 IgA, IgM, and IgG immunoglobulin isotypes. *medRxiv preprint* (2022)
- Crawford et al. Human Cytomegalovirus Induces Cellular and Humoral Virus-specific Immune Responses in Humanized BLT Mice. *Scientific Reports* (2017)

Disclaimer

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