

Datasheet for 609-101-130**Human IgG IgA IgM (H&L) Antibody****Overview**

Description:	Goat Anti-Human IgG IgA IgM (H&L) Antibody - 609-101-130
Item No.:	609-101-130
Size:	2 mg
Applications:	Dot Blot, ELISA
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Anti-Human IgG IgA IgM (H&L) 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, Goat Anti-Human IgG IgA IgM Antibody, Goat Anti-Human IgGAM
Host Species:	Goat
Specificity:	IgG IgA IgM
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
Immunogen:	Human IgG, IgA and IgM whole molecules

Purity/Specificity:	This product was prepared from polyspecific antiserum by immunoaffinity chromatography using antigens coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against 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.
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Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Anti-Human IgG IgA IgM antibody has been tested by ELISA and dot blot and is suitable for western blot and immunohistochemistry, as well as other assays requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:28,800 - 1:48,800
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

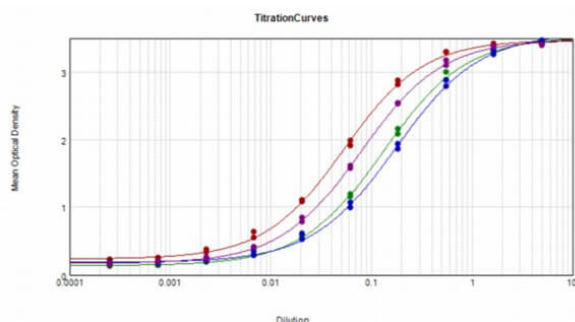
Formulation

Physical State:	Liquid (sterile filtered)
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) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ELISA

ELISA Results of purified Goat Anti-Human IgG, IgA, IgM Antibody tested against purified Human IgG, IgA, IgM. The working dilution for Anti-Human IgG, IgA, IgM is 1:20,000. Each well was coated in duplicate with 1.0 µg of Human IgG protein [Red Line], Human IgA [Green Line], Human IgM [Blue Line], Human IgG/A/M [Purple Line]. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Donkey Anti-Goat IgG HRP conjugated and TMBE-1000 substrate.

References

- Akindele NP et al. B-Cell Responses in Hospitalized Severe Acute Respiratory Syndrome Coronavirus 2–Infected Children With and Without Multisystem Inflammatory Syndrome. *J Infect Dis.* (2022)
- Cho A et al. Single-cell analysis suggests that ongoing affinity maturation drives the emergence of pemphigus vulgaris autoimmune disease. *Cell Rep.* (2019)

Disclaimer

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