

Datasheet for 609-4302**Human IgG (H&L) Antibody Peroxidase Conjugated****Overview**

Description:	Rabbit Anti-Human IgG (H&L) Antibody Peroxidase Conjugated - 609-4302
Item No.:	609-4302
Size:	2 mg
Applications:	Dot Blot, ELISA
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Anti-Human IgG (H&L) Peroxidase generated in rabbit 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:	rabbit anti-Human IgG Antibody peroxidase Conjugation, rabbit anti-Human IgG HRP Conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
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Immunogen Type:	Native Protein
Immunogen:	Anti-Human IgG whole molecule was produced by repeated immunization with Human IgG whole molecule in rabbit.
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Human IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, Human IgG and Human Serum.

Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Anti-Human IgG (H&L) Peroxidase Conjugated Antibody has been tested by ELISA and Dot Blot and is suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic 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:	1:150,000 - 1:250,000
IHC:	1:1,000 - 1:5,000
WB:	1:5,000 - 1:25,000

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)

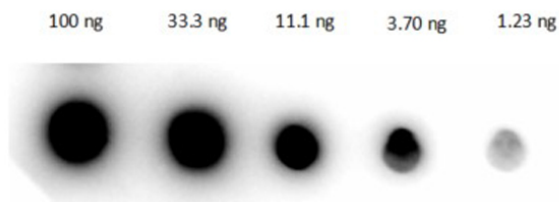
Shipping & Handling

Shipping Condition:	Ambient
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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



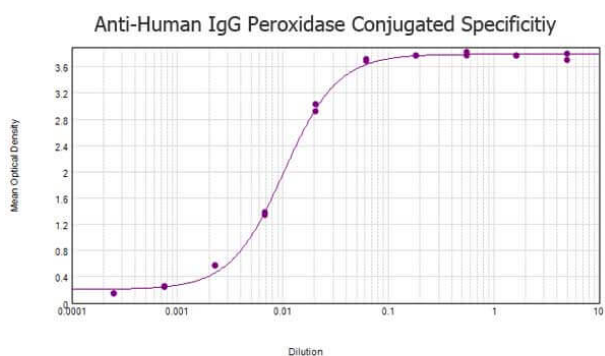
Dot Blot

Dot Blot Results of Rabbit Anti-Human IgG HRP Conjugated Antibody.

Human IgG sample loaded 1- 100ng, 2- 33.3ng, 3- 11.1ng, 4- 3.7ng, 5- 1.2ng.

Rabbit Anti-Human IgG Peroxidase Conjugated Antibody 1:1000 for 60mins at RT.

Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) for 1hr at RT.



ELISA

ELISA results of Rabbit anti-Human IgG Antibody Peroxidase Conjugated tested against purified Human IgG protein. Each well was coated in duplicate with 1.0 µg of Human IgG (p/n 009-0102). 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 3% fish gelatin as blocking buffer and TMB substrate p/n TMBE-1000.

References

- Huang KYA et al. Breadth and function of antibody response to acute SARS-CoV-2 infection in humans. *PLoS Pathog.* (2021)
- Zhou D. et al. Structural basis for the neutralization of SARS-CoV-2 by an antibody from a convalescent patient. *bioRxiv* (2020)

Disclaimer

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