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Datasheet for 609-103-123

Human IgG (H&L) Secondary Antibody Peroxidase Conjugated Pre-Adsorbed

Overview

Description:	Goat Anti-Human IgG (H&L) Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Ms Rb Rt & Sh Serum Proteins) - 609-103-123
Item No.:	609-103-123
Size:	1 mg
Applications:	ELISA, IHC
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	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. 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:	goat anti-Human IgG peroxidase conjugated Antibody, goat anti-Human IgG Antibody HRP conjugation
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	0.377

Target Details

Reactivity:	Human
Immunogen:	Human IgG whole molecule
Purity/Specificity:	HRP Conjugated Secondary Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Human IgG 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-Peroxidase, anti-Goat Serum, Human IgG and Human Serum. No reaction was observed against Bovine, Chicken, Goat, Guinea Pig, Hamster, Horse, Mouse, Rabbit, Rat and Sheep Serum Proteins.
Relevant Links:	• SDS

Application Details

Tested Applications:	ELISA
Suggested Applications:	IHC (Based on references)
Application Note:	Anti-Human IgG (H&L) Peroxidase has been tested by ELISA and is ideal for western blotting, Immunohistochemistry and ELISA as well as other antibody detection methods
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:200,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000

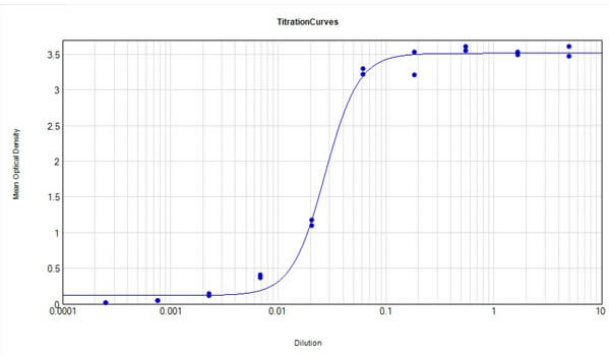
Formulation

Physical State:	Lyophilized
Concentration:	1 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 Secondary Antibody 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 HRP Conjugated Secondary Antibody 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



ELISA
ELISA Results of purified Goat Anti-Human IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Ms Rb Rt Sh Serum Proteins) tested against purified Human IgG HRP. Each well was coated in duplicate with 1.0 µg of Human IgG (p/n 009-0102). The working dilution is 1:36,500. 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 HRP Conjugation Stabilizer (p/n MB-076) and TMB substrate (p/n TMBE-1000).

References

- Tse AL et al. Powassan Virus Seroprevalence in a U.S. Servicemember Population at High Risk for Tick Exposure. *medRxiv [Preprint].* (2026)
- Bahnan W et al. A human monoclonal antibody bivalently binding two different epitopes in streptococcal M protein mediates immune function. *EMBO Mol Med.* (2023)
- Easterhoff D et al. HIV vaccine delayed boosting increases Env variable region 2–specific antibody effector functions. *JCI Insight.* (2020)

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