

## Datasheet for 608-1302

**Horse IgG (H&L) Antibody Peroxidase Conjugated****Overview**

<b>Description:</b>	Goat Anti-Horse IgG (H&L) Antibody Peroxidase Conjugated - 608-1302
<b>Item No.:</b>	608-1302
<b>Size:</b>	2 mg
<b>Applications:</b>	ELISA
<b>Reactivity:</b>	Horse
<b>Host Species:</b>	Goat

**Product Details**

<b>Background:</b>	Anti-Horse IgG Peroxidase Antibody generated in goat detects horse IgG. Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F (ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present. 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.
<b>Synonyms:</b>	goat Anti-Horse IgG peroxidase Conjugated Antibody, goat Anti-Horse IgG Antibody HRP Conjugation
<b>Host Species:</b>	Goat
<b>Specificity:</b>	IgG (H&L)
<b>Conjugate:</b>	Peroxidase (HRP)
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG
<b>F/P Ratio:</b>	.495

## Target Details

<b>Reactivity:</b>	Horse
<b>Immunogen:</b>	Horse IgG whole molecule
<b>Purity/Specificity:</b>	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Horse 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, Horse IgG and Horse Serum.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">608-1302 SDS</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA
<b>Application Note:</b>	Anti-Horse IgG Peroxidase Antibody has been tested by ELISA and is designed for western blotting and Immunohistochemistry.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:20,000 - 1:60,000
<b>IHC:</b>	1:1,000 - 1:5,000
<b>WB:</b>	1:2,000 - 1:20,000

## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	2 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	1.0 mL
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
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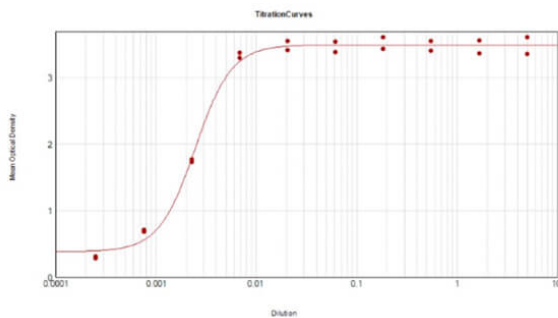
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
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<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.
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## Images



## ELISA

ELISA Results of Goat Anti-Horse IgG Antibody Peroxidase Conjugated tested against purified Horse IgG. Each well was coated in duplicate with 1.0 µg of Horse IgG (p/n 008-0102). The working dilution is 1:400,000. 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 Horse IgG HRP conjugated and TMB substrate (p/n TMBE-1000).

## References

- Punyadarsaniya D et al. Establishment of an In-House Indirect Enzyme-Linked Immunosorbent Assay to Detect Antibodies Against African Horse Sickness Based on Monovalent and Polyvalent Live Attenuated Vaccines During the First Outbreak in Thailand. *Animals (Basel)*. (2025)

## Disclaimer

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