

## Goat IgG anti-Bovine IgG (H+L)-HRPO, MinX none

### General Information

<b>Catalog Number:</b> SEC-182724	<b>Physical State:</b> Lyophilized
<b>Quantity:</b> 2 ml	<b>Reconstitution Volume:</b> 2.0 mL
	<b>Reconstitution Buffer:</b> Restore with deionized water (or equivalent)
	<b>Shipping Conditions:</b> at room temperature
	<b>Product Expiration:</b> Expiration date is one (1) year from date of opening.

### Antibody Host / Format

<b>Host Species:</b> Goat	<b>Clonality / Isotype / Clone:</b> polyclonal Ig
<b>Antibody Format:</b> IgG whole molecule	<b>Concentration:</b> 0.8 mg/mL by UV absorbance at 280 nm
	<b>Conjugation:</b> Horseradish Peroxidase (HRP)
	<b>Maximum Excitation / Emission:</b> /

### Specificity

<b>Target Species:</b> Bovine	<b>Immunogen:</b> Bovine IgG whole molecule
<b>Antibody Specificity:</b> IgG (H+L)	Anti-Bovine IgG (H&L) Antibody Peroxidase Conjugated was prepared from monospecific antiserum by immunoaffinity chromatography using Bovine IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Bovine IgG and Bovine Serum.
	<b>Minimal Cross Reactivity:</b> none

### Formulation, Transport and Storage

<b>Storage Buffer:</b> See application note.	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.
<b>Stabilizer:</b> 15 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free	
<b>Preservatives:</b> None	
	<b>Storage Temperature:</b> 4-8°C

### Application Recommendation

<b>Application:</b> ELISA, Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections), Immunohistochemistry (frozen sections), Western Blot
<b>Dilution:</b> ELISA 1:5,000 - 1:100,000, Immunohistochemistry (IHC) 1:500 - 1:5,000, Western Blot (WB) 1:5.000 - 1:200.000

This product is for In Vitro experimental use only. Not for Therapeutic or Diagnostic use.

#### Manufacturer

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### Application Note:

This antibody is supplied in 0.01M Sodium Phosphate, 0.25M NaCl, pH: 7.6. Anti-Bovine IgG (heavy and light chain) Antibody is peroxidase conjugated and is suitable for immunoassays where specificity to bovine immunoglobulin is desired. Antibody has been tested by ELISA, western blot immunoblot, and immunohistochemistry. Optimal concentrations in immunoassays should be determined by the researcher.

### Background Information

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 complement cascade, and opsonization for phagocytosis. This product possesses the F(ab) region possessing the epitope-recognition site, both heavy and light chains of the antibody molecule are present. Bovine IgG (H&L) Antibody Peroxidase Conjugated detects Bovine Immunoglobulin G. Immunoglobulin G, IgG, are antibody molecules. Each IgG is a heterotetramer composed of four peptide chains - two heavy chains and two light chains. Each IgG has two F(ab) antigen binding sites.

### Safety Information

The product contains no hazardous constituents. Standard Laboratory Practices should be followed when handling this material. **DO NOT ADD SODIUM AZIDE!** Use of Sodium Azide as a preservative will substantially inhibit the enzyme activity of horseradish peroxidase!

### Disclaimer

This product is warranted to perform in conformance with product specifications and to be free from defects in material and workmanship. Products are supplied for research use only. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated, this warranty is limited to one year from date of shipment when the product is subjected to normal, proper and intended usage. Buyer's exclusive remedy for non-conforming products during the warranty period is limited to replacement of or refund for the non-conforming product(s). There is no obligation to replace products as the result of accident or disaster or inappropriate use of the products in a manner for which they were not designed, or improper storage and handling of the products.

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