

**Datasheet for 601-4502****Bovine IgG (H&L) Antibody Alkaline Phosphatase Conjugated****Overview**

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| <b>Description:</b>  | Rabbit Anti-Bovine IgG (H&L) Antibody Alkaline Phosphatase Conjugated - 601-4502 |
| <b>Item No.:</b>     | 601-4502                                                                         |
| <b>Size:</b>         | 1 mg                                                                             |
| <b>Applications:</b> | ELISA                                                                            |
| <b>Reactivity:</b>   | Bovine                                                                           |
| <b>Host Species:</b> | Rabbit                                                                           |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Background:</b>   | 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. This product possesses the F(ab) region possessing the epitope-recognition site, both heavy and light chains of the antibody molecule are present. |
| <b>Synonyms:</b>     | rabbit anti-Bovine IgG Alkaline Phosphatase Conjugated Antibody, rabbit anti-Bovine IgG Alk phos Conjugated Antibody                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Specificity:</b>  | IgG (H&L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Conjugate:</b>    | Alkaline Phosphatase (AP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>F/P Ratio:</b>    | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Target Details**

|                    |                           |
|--------------------|---------------------------|
| <b>Reactivity:</b> | Bovine                    |
| <b>Immunogen:</b>  | Bovine IgG whole molecule |

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| <b>Purity/Specificity:</b> | This product 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-Alkaline Phosphatase (calf intestine), anti-Rabbit Serum, Bovine IgG and Bovine Serum. |
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## Application Details

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| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                                                          |
| <b>Application Note:</b>    | Anti-Bovine IgG Alkaline Phosphatase conjugate has been tested by ELISA and is suitable for immunoblotting (western or dot blot), ELISA, immunoelectron microscopy and immunohistochemistry as well as other antibody-based enzymatic assays requiring lot-to-lot consistency. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                |
| <b>ELISA:</b>               | 1:1,000 - 1:5,000                                                                                                                                                                                                                                                              |
| <b>IHC:</b>                 | 1:200 - 1:1,000                                                                                                                                                                                                                                                                |
| <b>WB:</b>                  | 1:500 - 1:2,500                                                                                                                                                                                                                                                                |

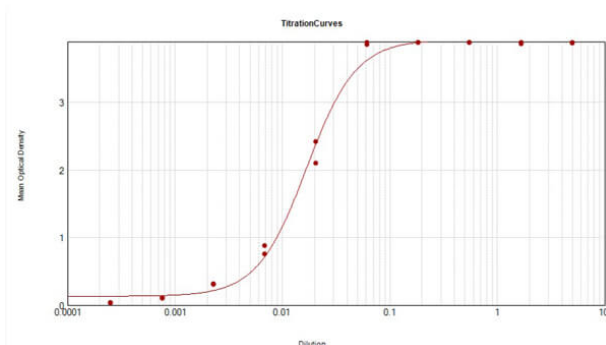
## Formulation

|                        |                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                                                                                 |
| <b>Concentration:</b>  | 1 mg/mL by UV absorbance at 280 nm                                                                                        |
| <b>Buffer:</b>         | 0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0 |
| <b>Preservative:</b>   | 0.1% (w/v) Sodium Azide                                                                                                   |
| <b>Stabilizer:</b>     | 10 mg/ml Polyethylene Glycol (PEG-8000)                                                                                   |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                |
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| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                        |
| <b>Storage Condition:</b>  | Store vial at 4° C before opening. DO NOT FREEZE. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                          |

## Images



### ELISA

ELISA Results of Rabbit Anti-Bovine IgG Antibody Alkaline Phosphatase Conjugated tested against purified Bovine IgG Alk Phos. Each well was coated in duplicate with 1.0 µg of Bovine IgG (p/n 001-0102). The working dilution is 1:60,000. 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 HRP Conjugation Stabilizer (p/n MB-076) and TMB substrate (p/n TMBE-1000).

## Disclaimer

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