

**Datasheet for 609-4502****Human IgG (H&L) Antibody Alkaline Phosphatase Conjugated****Overview**

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|----------------------|---------------------------------------------------------------------------------|
| <b>Description:</b>  | Rabbit Anti-Human IgG (H&L) Antibody Alkaline Phosphatase Conjugated - 609-4502 |
| <b>Item No.:</b>     | 609-4502                                                                        |
| <b>Size:</b>         | 1 mg                                                                            |
| <b>Applications:</b> | Dot Blot, ELISA                                                                 |
| <b>Reactivity:</b>   | Human                                                                           |
| <b>Host Species:</b> | Rabbit                                                                          |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Background:</b>   | Anti-Human IgG Alkaline Phosphatase Antibody generated in rabbit detects human Immunoglobulin G (IgG). 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. Human IgG antibody detects human IgG whole molecule. Anti-Human IgG antibody is ideal for investigators involved in serum protein component research. |
| <b>Synonyms:</b>     | rabbit anti-Human IgG Antibody Alkaline Phosphatase Conjugation, rabbit-anti-Human IgG Alkaline Phosphatase 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Target Details**

|                    |       |
|--------------------|-------|
| <b>Reactivity:</b> | Human |
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| <b>Immunogen:</b>          | Human IgG whole molecule                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity/Specificity:</b> | Anti-HUMAN IgG 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-Alkaline Phosphatase (calf intestine), anti-Rabbit Serum, Human IgG and Human Serum. |

## Application Details

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| <b>Tested Applications:</b> | Dot Blot, ELISA                                                                                                                                                                                                                           |
| <b>Application Note:</b>    | Anti-Human IgG Alkaline Phosphatase Antibody has been tested by ELISA and dot blot and is suitable for ELISA, Western Blot and immunohistochemistry applications. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                           |
| <b>ELISA:</b>               | 1:2,000 - 1:10,000                                                                                                                                                                                                                        |
| <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 Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free                                                    |

## 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



### Dot Blot

Dot Blot of Rabbit anti-Human IgG Antibody Alkaline Phosphatase Conjugated. Antigen: Human IgG. Load: Lane 1 - 200 ng Lane 2 - 66.7 ng Lane 3 - 22.2 ng Lane 4 - 7.41 ng Lane 5 - 2.47 ng. Primary antibody: n/a. Secondary antibody: Rabbit anti-Human IgG Antibody Alkaline Phosphatase Conjugated at 1:1,000 for 1 HR at RT. Block: MB-070 for 1 HR at RT.

## Disclaimer

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