

**Datasheet for 613-4528**

## Sheep IgG (H&L) Secondary Antibody Alkaline Phosphatase Conjugated Pre-Adsorbed

### Overview

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| <b>Description:</b>  | Rabbit Anti-Sheep IgG (H&L) Antibody Alkaline Phosphatase Conjugated (Min X Human Serum Proteins) - 613-4528 |
| <b>Item No.:</b>     | 613-4528                                                                                                     |
| <b>Size:</b>         | 500 µg                                                                                                       |
| <b>Reactivity:</b>   | Sheep                                                                                                        |
| <b>Host Species:</b> | Rabbit                                                                                                       |

### Product Details

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| <b>Background:</b>   | Anti-Sheep IgG (H&L) Alkaline Phosphatase Antibody generated in rabbit detects reactivity to sheep 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 the 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. This Anti-Sheep IgG is conjugated to Alkaline Phosphatase. |
| <b>Synonyms:</b>     | Rabbit Anti-Sheep IgG alkaline phosphatase Conjugated Antibody, Rabbit Anti-Sheep IgG Antibody alk phos Conjugation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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

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| <b>Reactivity:</b>         | Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen:</b>          | Sheep IgG whole molecule                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity/Specificity:</b> | Secondary antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Sheep 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, Sheep IgG and Sheep Serum. No reaction was observed against Human Serum Proteins. |

## Application Details

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| <b>Application Note:</b> | Secondary antibody conjugated to alkaline phosphatase is available in a variety of formats. Conjugated Secondary Antibody is suitable for western blot, ELISA, immunoperoxidase electron 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>               | 1:400 - 1:1,600                                                                                                                                                                                                                                                                                                 |

## Formulation

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| <b>Physical State:</b> | Liquid (sterile filtered)                                                                                                 |
| <b>Concentration:</b>  | 0.5 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>   | 0.09% (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 |
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| <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.                                                                                                                                                                                          |

## Disclaimer

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