

## Datasheet for 606-4502

## Guinea Pig IgG (H&L) Antibody Alkaline Phosphatase Conjugated

### Overview

|                      |  |
|----------------------|--|
| <b>Description:</b>  | Rabbit Anti-Guinea Pig IgG (H&L) Antibody Alkaline Phosphatase Conjugated - 606-4502 |
| <b>Item No.:</b>     | 606-4502   |
| <b>Size:</b>         | 1 mg   |
| <b>Applications:</b> | Dot Blot, ELISA  |
| <b>Reactivity:</b>   | Guinea Pig   |
| <b>Host Species:</b> | Rabbit   |

### Product Details

|                      |  |
|----------------------|--|
| <b>Background:</b>   | Anti-Guinea Pig IgG Alkaline Phosphatase Antibody generated in rabbit detects guinea pig 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 complement 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>     | rabbit Anti-Guinea Pig IgG Antibody alkaline phosphatase Conjugation, rabbit Anti-Guinea Pig 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  |

### Target Details

|                            |   |
|----------------------------|---|
| <b>Reactivity:</b>         | Guinea Pig  |
| <b>Immunogen:</b>          | Guinea Pig IgG whole molecule   |
| <b>Purity/Specificity:</b> | Anti-GUINEA PIG IgG (H&L) (RABBIT) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Guinea Pig 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, Guinea Pig IgG and Guinea Pig Serum. |

## Application Details

|                             |   |
|-----------------------------|---|
| <b>Tested Applications:</b> | Dot Blot, ELISA   |
| <b>Application Note:</b>    | Anti-GUINEA PIG IgG alkaline phosphatase Antibody has been tested by ELISA and dot blot and is suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring lot-to-lot consistency. Specific conditions should be optimized by user. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.   |
| <b>ELISA:</b>               | 1:5,000 - 1:15,000  |
| <b>IHC:</b>                 | 1:200 - 1:1,000   |
| <b>WB:</b>                  | 1:500 - 1:2,000   |

## Formulation

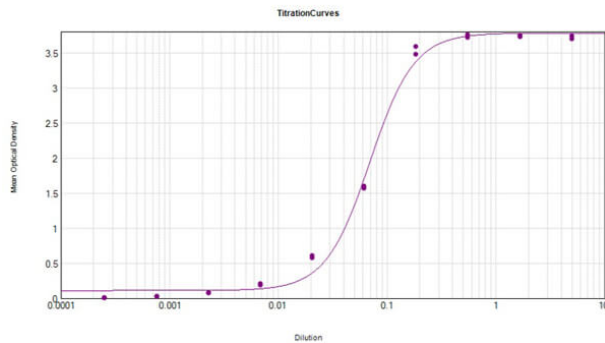
|                        |   |
|------------------------|---|
| <b>Physical State:</b> | Liquid (sterile filtered)   |
| <b>Concentration:</b>  | 1.0 mg/mL by UV absorbance at 280 nm  |
| <b>Buffer:</b>         | 0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 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

|                            |  |
|----------------------------|--|
| <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. |

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### ELISA

ELISA Results of Rabbit Anti-Guinea Pig IgG Antibody Alkaline Phosphatase Conjugated tested against purified Guinea Pig IgG Alk Phos. Each well was coated in duplicate with 1.0  $\mu$ g of Guinea Pig IgG (p/n 006-0102). The working dilution is 1:14,500. The starting dilution of antibody was 5 $\mu$ g/ml and the X-axis represents the Log<sub>10</sub> of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC<sub>50</sub> is defined as the titer of the antibody. Assay performed using Alkaline Phosphatase ELISA Substrate (p/n NPP-10) and NPP Working Buffer (p/n NPP-B500).

## References

- Al-Attar L et al. Hormonal and cellular regulation of Sertoli cell anti-Müllerian hormone production in the postnatal mouse. *J Clin Invest.* (1997)

## Disclaimer

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