

## Datasheet for 605-705-002

**Goat IgG (H&L) Antibody Alkaline Phosphatase Conjugated****Overview**

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| <b>Description:</b>  | Donkey Anti-Goat IgG (H&L) Antibody Alkaline Phosphatase Conjugated - 605-705-002 |
| <b>Item No.:</b>     | 605-705-002                                                                       |
| <b>Size:</b>         | 1 mg                                                                              |
| <b>Applications:</b> | Dot Blot, ELISA, IHC, WB                                                          |
| <b>Reactivity:</b>   | Goat                                                                              |
| <b>Host Species:</b> | Donkey                                                                            |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Anti-Goat IgG Alkaline Phosphatase Antibody generated in donkey detects goat 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. |
| <b>Synonyms:</b>     | donkey anti-Goat IgG Antibody Alkaline Phosphatase Conjugation, donkey anti-Goat IgG Alk Phos Conjugated Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Host Species:</b> | Donkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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>     | Goat           |
| <b>Immunogen Type:</b> | Native Protein |

|                            |                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Anti-Goat IgG (H&L) was produced by repeated immunization with goat IgG whole molecule in donkey.                                                                                                                                                                                                                                                                            |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Goat 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-Donkey Serum, Goat IgG and Goat Serum. |

## Application Details

|                                |                                                                                                                                                                                                                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b>    | Dot Blot, ELISA                                                                                                                                                                                                                                                                                |
| <b>Suggested Applications:</b> | IHC, WB (Based on references)                                                                                                                                                                                                                                                                  |
| <b>Application Note:</b>       | Anti-Goat IgG (H&L) Alkaline Phosphatase Antibody has been tested by ELISA and dot blot 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>                  | 1:2,000 - 1:10,000                                                                                                                                                                                                                                                                             |
| <b>IHC:</b>                    | 1:200 - 1:1,000                                                                                                                                                                                                                                                                                |
| <b>WB:</b>                     | 1:500 - 1:2,500                                                                                                                                                                                                                                                                                |

## Formulation

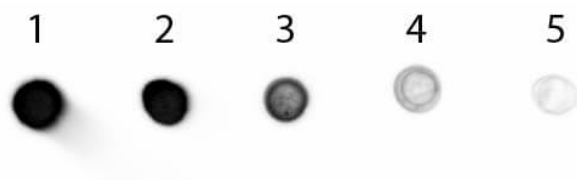
|                        |                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <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>   | 0.09% (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



### Dot Blot

Dot Blot of Donkey anti-Goat IgG Antibody Alkaline Phosphatase Conjugated. Antigen: Goat 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: Donkey anti-Goat IgG Antibody Alkaline Phosphatase Conjugated at 1:1,000 for 60 min at RT. Block: MB-070 for 1 HR at RT.

## References

- Tsuchiya E et al. Histochemical assessment on the cellular interplay of vascular endothelial cells and septoclasts during endochondral ossification in mice. *Microscopy (Oxf)*. (2021)
- Vallejo J, Hardin CD. Metabolic organization in vascular smooth muscle: distribution and localization of caveolin-1 and phosphofructokinase. *Am J Physiol Cell Physiol*. (2004)

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.