

**Datasheet for 610-101-043****Mouse IgG3 Antibody Pre-adsorbed****Overview**

|                      |                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------|
| <b>Description:</b>  | Goat Anti-Mouse IgG3 (Gamma 3 chain) Antibody (Min X to Bv, Hu & Rb Serum Proteins) - 610-101-043 |
| <b>Item No.:</b>     | 610-101-043                                                                                       |
| <b>Size:</b>         | 1 mg                                                                                              |
| <b>Applications:</b> | ELISA                                                                                             |
| <b>Reactivity:</b>   | Mouse                                                                                             |
| <b>Host Species:</b> | Goat                                                                                              |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Anti-Mouse IgG3 Antibody generated in goat detects reactivity to Mouse IgG3 (Gamma 3 chain). Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. IgG3 comprises almost 10% of the IgG subclass and has a high affinity for binding to the Fc receptor of phagocytic 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. |
| <b>Synonyms:</b>     | goat anti-MOUSE IgG3 Antibody, goat anti-MOUSE IgG3 (gamma 3) Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Host Species:</b> | Goat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Specificity:</b>  | IgG3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Target Details**

|                        |                        |
|------------------------|------------------------|
| <b>Reactivity:</b>     | Mouse                  |
| <b>Immunogen Type:</b> | Native Protein         |
| <b>Immunogen:</b>      | Mouse IgG3 heavy chain |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity/Specificity:</b> | Anti-MOUSE IgG3 (Gamma 3 chain) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG3 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-Goat Serum, Mouse Serum, Mouse IgG and Mouse IgG3. No reaction was observed against Bovine, Human, and Rabbit Serum Proteins. Specificity was confirmed by ELISA for human and rabbit. For IgG1, IgG2a and IgG2b reactivity was less than 5% against target (IgG3, IgG). Cross-reactivity against Bovine is assessed only by IEP. |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Application Details

|                             |                                                                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                               |
| <b>Application Note:</b>    | Anti-Mouse IgG3 secondary antibody has been tested by ELISA and is suitable for ELISA, Immunohistochemistry, western blotting as well as other anti IgG3 antibody based assays. Mouse IgG3 secondary antibody is available in a variety of formats. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                     |
| <b>ELISA:</b>               | 1:40,000 - 1:200,000                                                                                                                                                                                                                                |
| <b>IHC:</b>                 | 1:2,000 - 1:10,000                                                                                                                                                                                                                                  |
| <b>WB:</b>                  | 1:4,000 - 1:20,000                                                                                                                                                                                                                                  |

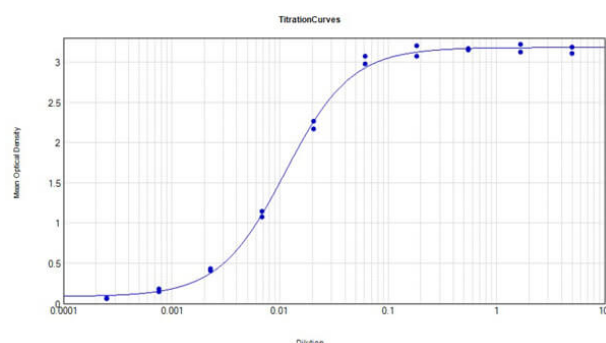
## Formulation

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                  |
| <b>Concentration:</b>  | 1.0 mg/mL by UV absorbance at 280 nm                       |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.01% (w/v) Sodium Azide                                   |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                                           |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage, mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                             |

## Images



## ELISA

ELISA Results of Goat Anti-Mouse IgG3 (Gamma 3 chain) Antibody Minimum Cross Reactivity to Bovine, Human, and Rabbit Serum Proteins tested against purified Mouse IgG3 mx3. Each well was coated in duplicate with 1.0 µg of Mouse IgG3 (p/n 010-0143). The working dilution is 1:90,000. 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 Conjugate Stabilizer (p/n MB-076), Donkey Anti-Goat IgG HRP (p/n 605-703-125), and TMB substrate (p/n TMBE-1000).

## References

- Seifert L et al. The classical pathway triggers pathogenic complement activation in membranous nephropathy. *Nat Commun.* (2023)

## 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.