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Datasheet for 610-101-042**Mouse IgG2b Antibody Pre-adsorbed****Overview**

Description:	Goat Anti-Mouse IgG2b (Gamma 2b chain) Antibody (Min X to Bv, Hu & Rb Serum Proteins) - 610-101-042
Item No.:	610-101-042
Size:	1 mg
Applications:	Dot Blot, ELISA
Reactivity:	Mouse
Host Species:	Goat

Product Details

Background:	Anti-Mouse IgG2b Antibody generated in goat detects reactivity to Mouse IgG2b (Gamma 2b chain). Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. IgG2, the second largest of IgG isotypes, comprises almost 25% of IgG and has a low 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.
Synonyms:	goat anti-MOUSE IgG2b Antibody, goat anti-Mouse IgG2b (gamma 2b) Antibody
Host Species:	Goat
Specificity:	IgG2b
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse
Immunogen Type:	Native Protein
Immunogen:	Mouse IgG2b heavy chain

Purity/Specificity:	Anti-MOUSE IgG2b (Gamma 2b chain) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG2b 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 IgG2b. No reaction was observed against Bovine, Human, and Rabbit Serum Proteins. Specificity was confirmed by ELISA for human and rabbit. For IgG1, IgG2a and IgG3 reactivity was less than 5% against target (IgG2b, IgG). Cross-reactivity against Bovine is assessed only by IEP.
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Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Mouse IgG2b secondary antibody has been tested by dot blot and ELISA and is available in a variety of formats. Anti-Mouse IgG2b secondary antibody is suitable for ELISA, Immunohistochemistry, western blotting as well as other anti IgG2b antibody based assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:40,000 - 1:200,000
IHC:	1:2,000 - 1:10,000
WB:	1:4,000 - 1:20,000

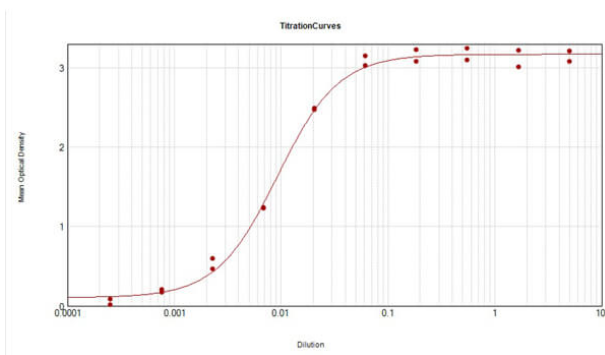
Formulation

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

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ELISA

ELISA Results of Goat Anti-Mouse IgG2b (Gamma 2b chain) Antibody Minimum Cross Reactivity to Bovine, Human, and Rabbit Serum Proteins tested against purified Mouse IgG2b mx3. Each well was coated in duplicate with 1.0 µg of Mouse IgG2b (p/n 010-0142). 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 conjugated (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.