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Datasheet for 611-201-122

Rabbit IgG (H&L) Antibody Pre-Adsorbed

Overview

Description:	Guinea Pig Anti-Rabbit IgG (H&L) Antibody (Min X Hu, Gt, Ms Serum Proteins) - 611-201-122
Item No.:	611-201-122
Size:	1 mg
Applications:	ELISA, WB, CUT&RUN
Reactivity:	Rabbit
Host Species:	Guinea Pig

Product Details

Background:	Anti-Rabbit IgG (H&L) generated in guinea pig detects rabbit Immunoglobulin G. Both the Heavy and Light chains of the antibody molecule are present. Representing approximately 75% of serum immunoglobulins, IgG is the most abundant antibody isotype found in the circulation. IgG molecules are synthesized and secreted by plasma B 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:	Guinea Pig Anti-Rabbit IgG Antibody, Guinea Pig Anti Rabbit IgG Antibody, ABIN101961
Host Species:	Guinea Pig
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Rabbit
Immunogen:	Rabbit IgG whole molecule

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rabbit 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-Guinea Pig Serum, Rabbit IgG and Rabbit Serum. No reaction was observed against Goat, Human and Mouse Serum Proteins.

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	CUT&RUN (Based on references)
Application Note:	Anti-Rabbit IgG antibody has been tested by ELISA and Western Blot and is suitable for use in immunohistochemistry and CUT&RUN. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:15,500 - 1:17,500
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

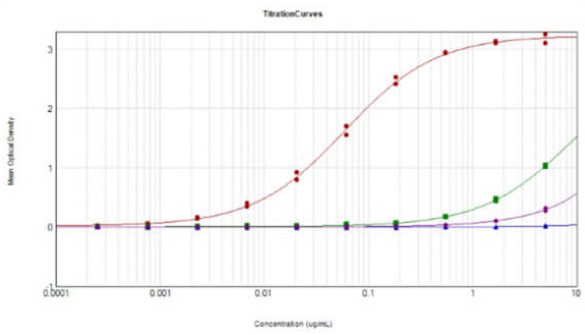
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.22 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
Stabilizer:	None

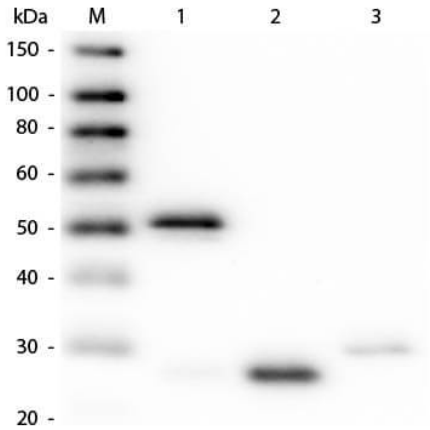
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage 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 Purified Guinea Pig Anti-Rabbit IgG mx3 Antibody tested against purified Rabbit IgG (Mx Human IgG, Goat IgG, Mouse IgG). Each well was coated in duplicate with 10 µg of Rabbit IgG (p/n 011-0102) [Red Line], Human IgG (p/n 009-0102) [Green Line], Goat IgG (p/n 005-0102) [Blue Line], Mouse IgG (p/n 010-0102) [Purple Line]. The working dilution is 1:17,000. 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 3% Fish Gel/PBS Blocking buffer (p/n MB-066), Goat Anti-Guinea Pig mx10 HRP conjugated (p/n 606-103-129) and TMB substrate (p/n TMBE-1000).



Western Blot
Western Blot of Anti-Rabbit IgG (H&L) (GUINEA PIG) Antibody (Min X Hu, Gt, Ms Serum Proteins) (p/n 611-201-122). Lane M: 3 µl Molecular Ladder. Lane 1: Rabbit IgG whole molecule (p/n 011-0102). Lane 2: Rabbit IgG F(ab) Fragment (p/n 011-0105). Lane 3: Rabbit IgG F(c) Fragment (p/n 010-0103). All samples were reduced. Load: 50 ng per lane. Block: MB-070 for 30 min at RT. Primary Antibody: Anti-Rabbit IgG (H&L) (GUINEA PIG) Antibody (Min X Hu, Gt, Ms Serum Proteins) (p/n 611-201-122) 1:500 for 60 min at RT. Secondary antibody: Anti-Guinea Pig IgG (GOAT) Peroxidase Conjugated Antibody (p/n 606-103-129) 1:40,000 in MB-070 for 30 min at RT. Predicted/Observed Size: 25 and 50 kDa for Rabbit IgG and Serum, 25 kDa for F(c) and F(ab). Rabbit F(c) migrates slightly higher.

References

- Iwagawa T et al. The histone H3K36 demethylase Fbxl11 plays pivotal roles in the development of retinal late-born cell types. *Genes Cells.* (2023)
- Michelson DA et al. Thymic epithelial cells co-opt lineage-defining transcription factors to eliminate autoreactive T cells. *Cell.* (2022)
- Zhang Q et al. Chromatin Accessibility Predetermines Odontoblast Terminal Differentiation. *Front Cell Dev Biol.* (2021)

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