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Datasheet for 603-4102

Chicken IgG (H&L) Antibody

Overview

Description:	Rabbit Anti-Chicken IgG (H&L) Antibody - 603-4102
Item No.:	603-4102
Size:	10 mg
Applications:	ELISA, WB
Reactivity:	Chicken
Host Species:	Rabbit

Product Details

Background:	Anti-Chicken IgG Antibody generated in rabbit detects chicken IgY. 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 compliment 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.
Synonyms:	Rabbit anti-Chicken IgG Antibody, Chicken Secondary Antibody, Rabbit anti-Chicken IgY
Host Species:	Rabbit
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Chicken
Immunogen Type:	Native Protein
Immunogen:	Anti-Chicken IgG (H&L) was produced by repeated immunization with Chicken IgG whole molecule in rabbit.

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Chicken IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum and Chicken IgG. Some light chain cross reactivity may be observed against chicken immunoglobulins.

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Chicken IgG (H&L) has been tested by ELISA and western blot and is suitable for use in immunoelectrophoresis, western-blot, competitive western-blot, ELISA and competitive ELISA assays. Specific conditions for reactivity and signal detection 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:	1:200,000 - 1:400,000
IHC:	1:1,000 - 1:5,000
WB:	1:10,000 - 1:30,000

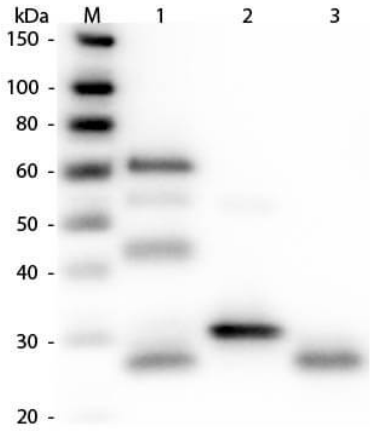
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	10.14 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

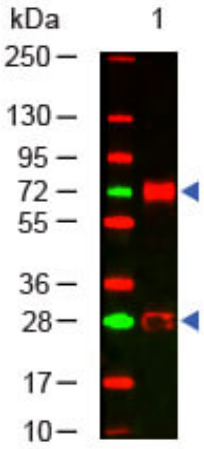
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable 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



Western Blot
Western Blot of Unconjugated Anti-Chicken IgG (H&L) (RABBIT) Antibody (p/n 603-4102). Lane M: 3 µl Molecular Ladder. Lane 1: Chicken IgG whole molecule (p/n 003-0102). Lane 2: Chicken IgG F(c) Fragment (p/n 003-0103). Lane 3: Chicken IgG Fab Fragment (p/n 003-0105). All samples were reduced. Load: 50 ng per lane. Block: MB-070 for 30 min at RT. Primary Antibody: Anti-Chicken IgG (H&L) (RABBIT) Antibody (p/n 603-4102) 1:3,000 for 60 min at RT. Secondary antibody: Anti-Rabbit IgG (GOAT) Peroxidase Conjugated Antibody (p/n 611-103-122) 1:40,000 in MB-070 for 30 min at RT. Predicted/Observed Size: 25 and 72 kDa for Chicken IgY, 25 kDa for F(c) and Fab. Chicken F(c) migrates slightly higher.



Western Blot
Western Blot of Rabbit anti-Chicken IgG Antibody. Lane 1: Chicken IgG (p/n 003-0102). Load: 100 ng per lane. Primary antibody: Chicken IgG antibody at 1:1000 for overnight at 4°C. Secondary antibody: DyLight™ 649 rabbit anti-Chicken secondary antibody (p/n 603-443-002) at 1:20,000 for 30 min at RT. Block: 5% BLOTTO (B501) for 30 min at RT. Predicted/Observed size: 72 and 28 kDa, 72 and 28 kDa for Chicken IgY.

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.