

Datasheet for 611-1103**Rabbit IgG Fc Antibody****Overview**

Description:	Goat Anti-Rabbit IgG Fc Antibody - 611-1103
Item No.:	611-1103
Size:	2 mg
Applications:	Dot Blot, ELISA, WB, LFA
Reactivity:	Rabbit
Host Species:	Goat

Product Details

Background:	Anti-Rabbit IgG F(c) generated in goat is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme papain under controlled conditions of temperature, time and pH. Receptors bind the Fc portion of rabbit IgG and often this fragment is removed from immunoglobulins to minimize receptor binding and lower background reactivity.
Synonyms:	goat anti-Rabbit IgG F(c) Antibody, Gt-a-Rabbit IgG F(c), Rabbit IgG F(c) Antibody in goat, Goat IgG F(c) Secondary Antibody.
Host Species:	Goat
Specificity:	IgG Fc
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Rabbit
Immunogen Type:	Native Protein
Immunogen:	Anti-Rabbit IgG was produced by repeated immunization with rabbit IgG f(c) fragment in goat

Purity/Specificity: This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rabbit IgG coupled to agarose. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rabbit IgG, Rabbit IgG F(c) and Rabbit Serum. No reaction was observed against Rabbit IgG F(ab')₂.

Application Details

Tested Applications:	Dot Blot, ELISA, WB
Suggested Applications:	LFA (Based on references)
Application Note:	Antibody Anti-Rabbit IgG F(c) has been tested by ELISA, dot blot, and western blot and is suitable for immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

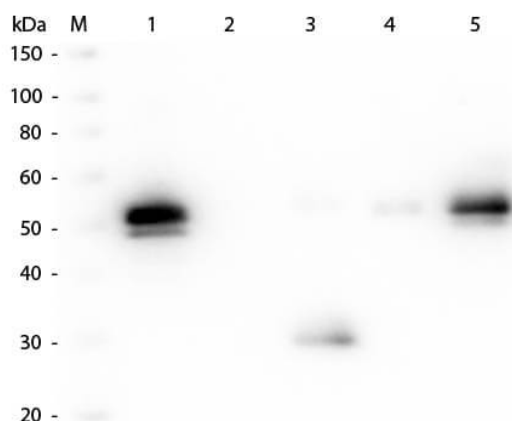
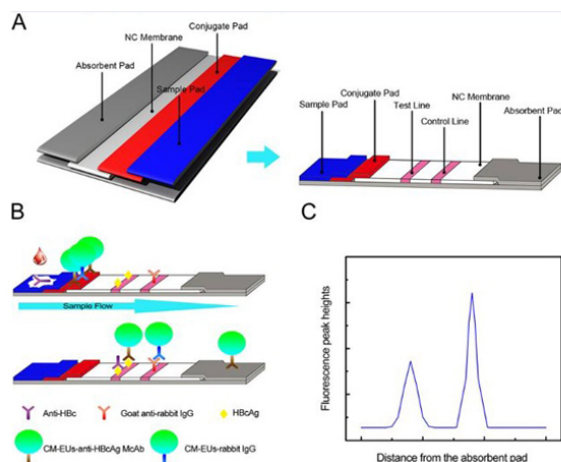
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	2.26 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

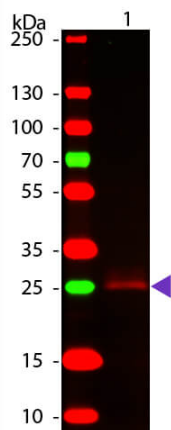


Lateral Flow

Schematic illustration of the CM-EUs-based lateral flow assay. (A) Components and assembly of CM-EUs-based lateral flow test strip. (B) The recombinant HBcAg and the anti-RlgG were immobilized on the test line and the control line, [Goat Anti-Rabbit IgG Fc Antibody (p/n 611-1103) and Rabbit IgG Whole Molecule (p/n 011-0102)] respectively. Samples containing anti-HBc are added to the sample pads and migrate along the NC membrane by capillary action, and the anti-HBcAg McAb competes with the anti-HBc in the sample for binding to the immobilized protein. (C) The fluorescence peak height is detected using a portable TRF strip reader. Fig 1. PMID: 29074971.

Western Blot

Western Blot of Anti-Rabbit IgG F(c) (GOAT) Antibody (p/n 611-1103). 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). Lane 4: Rabbit IgM Whole Molecule (p/n 011-0107). Lane 5: Normal Rabbit Serum (p/n B309). All samples were reduced. Load: 50 ng of IgG, F(ab), IgM and Serum, 100 ng of F(c). Block: MB-070 for 30 min at RT. Primary Antibody: Anti-Rabbit IgG F(c) (GOAT) Antibody (p/n 611-1103) 1:2,000 for 60 min at RT. Secondary antibody: Anti-Goat IgG (DONKEY) Peroxidase Conjugated Antibody (p/n CUST10) 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), 70 and 23 kDa for IgM. Rabbit F(c) migrates slightly higher.



Western Blot

Western Blot of Goat Anti-Rabbit F(c) secondary antibody.
 Lane 1: Rabbit F(c) (p/n 011-0103). Load: 50 ng per lane.
 Primary antibody: Rabbit F(c) antibody at 1:1,000 overnight at 4°C. Secondary antibody: DyLight™ 649 goat secondary antibody (p/n 605-443-002) at 1:20,000 for 30 min at RT.
 Blocking: MB-070 for 30 min at RT. Predicted/Observed size: 25 kDa, 25 kDa for Rabbit F(c).

References

- Liang RL. et al. Europium (III) chelate microparticle-based lateral flow immunoassay strips for rapid and quantitative detection of antibody to hepatitis B core antigen. *Sci Rep.* (2017)

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.