

Datasheet for 710-1102**F(ab')₂ Mouse IgG (H&L) Antibody****Overview**

Description:	Goat F(ab') ₂ Anti-Mouse IgG (H&L) Antibody - 710-1102
Item No.:	710-1102
Size:	1 mg
Applications:	Dot Blot, ELISA, WB
Reactivity:	Mouse
Host Species:	Goat

Product Details

Background:	F(ab') ₂ Mouse IgG (H&L) Antibody was generated by enzymatic cleavage and subsequent separation from the Fc fragment. Because of their smaller size, F(ab') ₂ fragments offer several advantages over intact antibodies for use in certain immunochemical techniques and experimental applications. F(ab') ₂ fragments penetrate into tissue samples and show better antigen recognition and signal generation in IHC. F(ab') ₂ fragments lack the Fc region and therefore do not bind Fc receptors which effectively lowers background staining. F(ab') ₂ Mouse IgG (H&L) Antibody is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
Synonyms:	Goat F(ab') ₂ Anti-Mouse IgG Antibody, Goat Fab2 Anti-Mouse IgG Antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG F(ab') ₂

Target Details

Reactivity:	Mouse
Immunogen Type:	Native Protein
Immunogen:	Anti-Mouse IgG was produced by repeated immunization with Mouse IgG whole molecule in goat.

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities, pepsin digestion and chromatographic separation. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Mouse IgG, Mouse IgG and Mouse Serum. No reaction was observed against anti-Pepsin, anti-Goat IgG F(c).
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Application Details

Tested Applications:	Dot Blot, ELISA, WB
Application Note:	F(ab') ₂ Mouse IgG (H&L) Antibody has been tested by ELISA, dot blot, and western blot and is suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays requiring extremely low background levels, absence of F(c) mediated binding, lot-to-lot consistency, high titer and specificity. The maximum amount of reagent required to stain 1 x 10 ⁶ cells in flow cytometry is approximately 1.0 µg of antibody. Lesser amounts of reagent may be sufficient for staining. Optimal titers for other applications should be determined by the researcher. As a general guideline dilutions of 1:100 to 1:250 should be suitable for most applications.
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

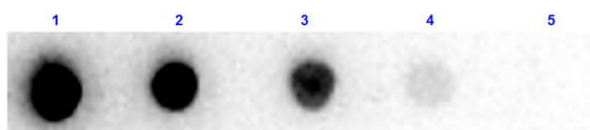
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

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



Dot Blot

Dot Blot Results of F(ab')₂ Goat Anti-Mouse IgG Antibody. Mouse IgG [p/n 010-0102] (1) 100ng, (2) 33.33ng, (3) 11.11ng, (4) 3.70ng, (5) 1.23ng. Primary Antibody: F(ab')₂ Goat Anti-Mouse IgG at 1.0µg/mL for 1hr at RT. Secondary Antibody: Donkey Anti-Goat IgG HRP [p/n 605-703-125] at 1µg/mL for 30 mins at RT. Block: BlockOut Buffer [p/n MB-073] at RT for 30 mins. Exposure: 1 sec.

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.