Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 712-101-033

F(ab')2 Rat IgG (H&L) Antibody Pre-Adsorbed

Overview

Description:	Goat F(ab')2 Anti-Rat IgG (H&L) Antibody (Min X MOUSE Serum Proteins) - 712-101-033
Item No.:	712-101-033
Size:	1 mg
Applications:	ELISA, SDS-PAGE, WB
Reactivity:	Rat
Host Species:	Goat

Product Details

Background:	F(ab')2 Rat IgG (H&L) Antibody Pre-Adsorbed 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 Rat IgG (H&L) Antibody Pre-Adsorbed is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
Synonyms:	Goat F(ab')2 Anti-Rat IgG Antibody, Goat Fab2 Anti-Rat IgG Antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG F(ab')2

Target Details

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

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rat 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, Rat IgG and Rat Serum. No reaction was observed against anti-Pepsin, anti-Goat IgG F(c) or Mouse Serum Proteins.

Application Details

Tested Applications:	ELISA, SDS-PAGE
Suggested Applications:	WB (Based on references)
Application Note:	F(ab')2 Rat IgG (H&L) Antibody has been tested by ELISA and SDS-PAGE and is suitable for western blot, 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 10E6 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

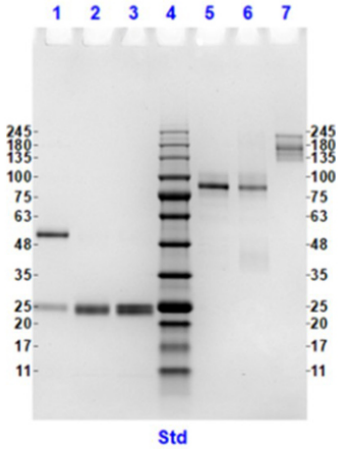
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

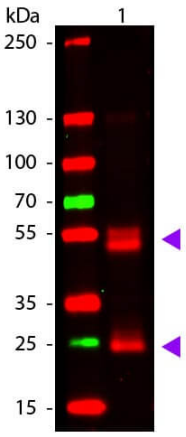
Shipping Condition:	Wet Ice

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



SDS-PAGE
Coomassie stained SDS-PAGE results using Goat F(ab')2 Anti-Rat IgG Mx Ms separated in a 4-20% gradient gel.
Lane 1: Goat IgG Whole Molecule (p/n 005-0102) reduced [1µg].
Lane 2: Goat IgG F(ab')2 Fragment (p/n 005-0104) reduced [1µg].
Lane 3: Goat F(ab')2 Anti-Rat IgG Mx Ms (p/n 712-101-033) reduced [1µg].
Lane 4: Opal Prestained Marker (p/n MB-210-0500).
Lane 5: Goat F(ab')2 Anti-Rat IgG Mx Ms (p/n 712-101-033) non-reduced [1µg].
Lane 6: Goat IgG F(ab')2 Fragment (p/n 005-0104) non-reduced [1µg].
Lane 7: Goat IgG Whole Molecule (p/n 005-0102) non-reduced [1µg].
Results show purity with no signs of degradation or aggregation (lanes 3 and 5). A control IgG (lanes 1 and 7) and a control F(ab')2 (lanes 2 and 6) were included for comparison.



Western Blot
Western Blot of Goat anti-Rat IgG Antibody. Lane 1: Rat IgG (p/n 012-0102). Load: 50 ng per lane. Primary antibody: F (ab')2 Rat IgG antibody at 1,000 overnight at 4°C. Secondary antibody: DyLight™ 649 goat secondary antibody at 1:20,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 28 & 55 kDa, 28 & 55 kDa for Rat IgG.

www.rockland.com
tech@rockland.com
+1 484.791.3823

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.