

Datasheet for 710-1307

F(ab')₂ MOUSE IgM (mu chain) Antibody Peroxidase Conjugated**Overview**

Description:	Goat F(ab') ₂ Anti-Mouse IgM (mu chain) Antibody Peroxidase Conjugated - 710-1307
Item No.:	710-1307
Size:	500 µg
Applications:	ELISA
Reactivity:	Mouse
Host Species:	Goat

Product Details

Background:	F(ab') ₂ Anti-Mouse IgM mu heavy chain generated in goat detects specifically Mouse IgM mu heavy chain. F(ab') ₂ 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 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 Antibody is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
Synonyms:	Goat F(ab') ₂ Anti-Mouse IgM (mu chain) Antibody Peroxidase Conjugation, Goat Fab2 Anti-Mouse IgM mu chain PE Conjugated Antibody
Host Species:	Goat
Specificity:	IgM µ chain
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG F(ab') ₂

Target Details

Reactivity:	Mouse
Immunogen Type:	Native Protein

Immunogen:	Mouse IgM whole molecule
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgM 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-Peroxidase, anti-Goat Serum, Mouse IgM and Mouse Serum. No reaction was observed against anti-Pepsin or anti-Goat IgG F(c). No reaction was observed against other mouse heavy or light chain proteins.

Application Details

Tested Applications:	ELISA
Application Note:	F(ab') ₂ Anti-Mouse IgM mu heavy chain peroxidase conjugated antibody has been tested by ELISA 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:	1:25,000 - 1:50,000
IHC:	1:500 - 1:2,500
WB:	1:2,000 - 1:10,000

Formulation

Physical State:	Lyophilized
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) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	500 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

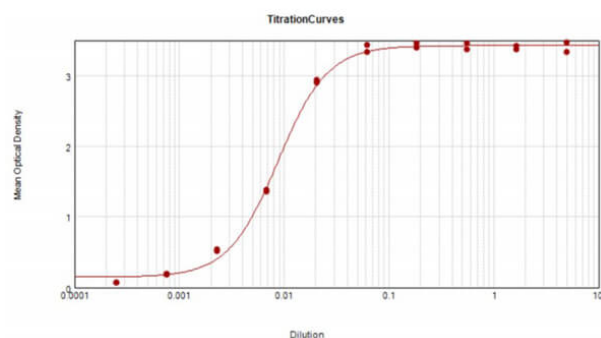
Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition: Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



ELISA

ELISA Results of F(ab')₂ Goat Anti-Mouse IgM Antibody Peroxidase Conjugated. Each well was coated in duplicate with 1.0 µg of Mouse IgM (p/n 010-0107). The working dilution is 115,000. 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 TMB substrate p/n TMBE-1000.

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.