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Datasheet for 710-4820

F(ab')2 Mouse IgG (H&L) Antibody Phycoerythrin Conjugated Pre-Adsorbed

Overview

Description:	Rabbit F(ab')2 Anti-Mouse IgG (H&L) Antibody Phycoerythrin Conjugated (Min X Human Serum Proteins) - 710-4820
Item No.:	710-4820
Size:	500 µg
Applications:	Dot Blot
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	F(ab')2 Mouse IgG (H&L) Antibody Phycoerythrin Conjugated 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 Mouse IgG (H&L) Antibody Phycoerythrin Conjugated Pre-Adsorbed is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
Synonyms:	Rabbit F(ab')2 Anti-Mouse IgG Antibody phycoerythrin Conjugation, Rabbit Fab2 Anti-Mouse IgG PE Conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	R-Phycoerythrin (RPE)
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 rabbit.
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. Coupling to R-PE was followed by size exclusion chromatography to purify conjugate from unreacted R-PE and antibody. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Phycoerythrin, anti-Rabbit Serum, Mouse IgG and Mouse Serum. No reaction was observed against anti-Pepsin, anti-Rabbit IgG F(c) or Human Serum Proteins.

Application Details

Tested Applications:	Dot Blot
Application Note:	F(ab')2 Mouse IgG Antibody Phycoerythrin Conjugated Antibody has been tested by dot 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 10E6 cells in flow cytometry is approximately 1.0 µg of antibody conjugate. 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.
FC:	1:100 - 1:250
IF:	1:100 - 1:250

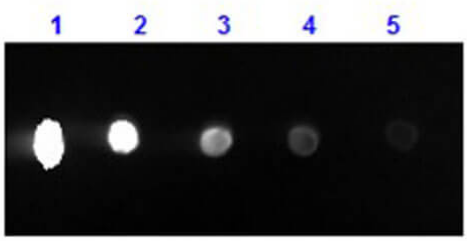
Formulation

Physical State:	Lyophilized
Concentration:	0.5 mg/mL by absorbance = 82.0 at 565 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Restore with deionized water (or equivalent). This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Centrifuge product if not completely clear after standing at room temperature. Do not freeze after reconstitution. Store reagent in the dark. Use subdued lighting during handling and incubation of cells prior to analysis.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Dot Blot
Dot Blot results of Rabbit F(ab')2 Anti-Mouse IgG Antibody Phycoerythrin Conjugated. Dots are Mouse IgG at (1) 100ng, (2) 33.3ng, (3) 11.1ng, (4) 3.70ng, (5) 1.23ng. Blocking: MB-070 for 60 min at RT. Primary Antibody: none. Secondary Antibody: Rabbit F(ab')2 Anti-Mouse IgG Antibody RPE at 1µg/mL for 1hr at RT. Imaged with BioRad ChemiDoc, Rhodamine filter.

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