

**Datasheet for 710-1232****F(ab')<sub>2</sub> Mouse IgG (H&L) Antibody Fluorescein Conjugated Pre-Adsorbed****Overview**

<b>Description:</b>	Goat F(ab') <sub>2</sub> Anti-Mouse IgG (H&L) Antibody Fluorescein Conjugated (Min X Bv Hs Hu Rb Rt & Sh Serum Proteins) - 710-1232
<b>Item No.:</b>	710-1232
<b>Size:</b>	500 µL
<b>Applications:</b>	FC, IF, Multiplex
<b>Reactivity:</b>	Mouse
<b>Host Species:</b>	Goat

**Product Details**

<b>Background:</b>	F(ab') <sub>2</sub> Anti-Mouse IgG (H&L) Fluorescein Antibody generated in goat was generated by enzymatic cleavage and subsequent separation from the Fc fragment. Because of their smaller size, F(ab) <sub>2</sub> fragments offer several advantages over intact antibodies for use in certain immunochemical techniques and experimental applications. F(ab) <sub>2</sub> fragments penetrate tissue samples and show better antigen recognition and signal generation in IHC. F(ab) <sub>2</sub> fragments lack the Fc region and therefore do not bind Fc receptors which effectively lowers background staining. F(ab') <sub>2</sub> Antibody is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
<b>Synonyms:</b>	Goat F(ab') <sub>2</sub> Anti-Mouse IgG Antibody Fluorescein Conjugation, Goat Fab <sub>2</sub> Anti-Mouse IgG FITC conjugated Antibody
<b>Host Species:</b>	Goat
<b>Specificity:</b>	IgG (H&L)
<b>Conjugate:</b>	Fluorescein (FITC)
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG F(ab') <sub>2</sub>
<b>F/P Ratio:</b>	2.8

**Target Details**

<b>Reactivity:</b>	Mouse
<b>Immunogen:</b>	Mouse IgG whole molecule
<b>Purity/Specificity:</b>	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-Fluorescein, anti-Goat Serum, Mouse IgG and Mouse Serum. No reaction was observed against anti-Pepsin, anti-Goat IgG F(c) or Bovine, Horse, Human, Rabbit, Rat or Sheep Serum Proteins.

## Application Details

<b>Suggested Applications:</b>	FC, IF, Multiplex (Based on references)
<b>Application Note:</b>	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. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>FC:</b>	1:500 - 1:2,500
<b>FLISA:</b>	1:10,000 - 1:50,000
<b>IF:</b>	1:1,000 - 1:5,000

## Formulation

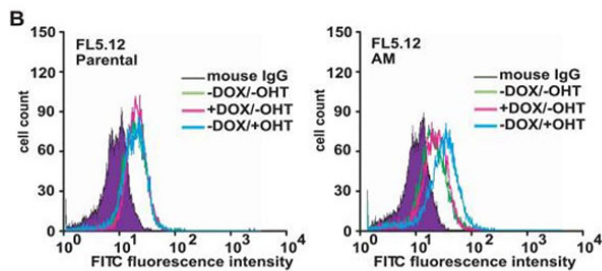
<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	500 µL
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
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<b>Storage Condition:</b>	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.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



### Flow Cytometry

Characterization of the effects of Akt and c-Myc on mitochondria. FL5.12 parental and FL5.12-AM cells were cultured with DOX or 4-OHT for 36 h. (B) cells were incubated with control IgG or anti-Cox IV subunit 1 and then incubated with fluorescein isothiocyanate-conjugated anti-mouse IgG secondary antibody [710-1232]. The expression level of mitochondrial complex IV subunit 1 was analyzed by flow cytometry. Note that the addition of 4-OHT increased the expression of complex IV subunit 1 in FL5.12-AM but not in the parental cells. Fig 3. PMID: 20018866.

## References

- Fan Y et al. Akt and c-Myc differentially activate cellular metabolic programs and prime cells to bioenergetic inhibition. *J Biol Chem.* (2010)

## 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.