

## Datasheet for 610-4104

**Mouse IgG F(ab')<sub>2</sub> Antibody****Overview**

<b>Description:</b>	Rabbit Anti-Mouse IgG F(ab') <sub>2</sub> Antibody - 610-4104
<b>Item No.:</b>	610-4104
<b>Size:</b>	2 mg
<b>Applications:</b>	ELISA, Other
<b>Reactivity:</b>	Mouse
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	Anti-Mouse IgG F(ab') <sub>2</sub> Antibody generated in rabbit recognizes the dimeric Fab portion of the mouse IgG molecule. Mouse IgG F(ab') <sub>2</sub> is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme pepsin under controlled conditions of temperature, time and pH. F(ab') <sub>2</sub> molecules lack the Fc portion of IgG and therefore receptors that bind mouse IgG F(c) will not bind mouse IgG F(ab') <sub>2</sub> molecules. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
<b>Synonyms:</b>	Rabbit Anti-Mouse IgG F(ab') <sub>2</sub> Antibody, Rabbit Anti Mouse IgG Fab <sub>2</sub> Antibody, Rabbit Anti Mouse IgG Fab <sub>2</sub> Fragment Antibody
<b>Host Species:</b>	Rabbit
<b>Specificity:</b>	IgG F(ab') <sub>2</sub>
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Reactivity:</b>	Mouse
<b>Immunogen:</b>	Mouse IgG F(ab') <sub>2</sub> fragment

**Purity/Specificity:** This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, Mouse IgG, Mouse IgG F(ab')<sub>2</sub> and Mouse Serum. No reaction was observed against Mouse IgG F(c).

## Application Details

**Tested Applications:** ELISA

**Suggested Applications:** Other (Based on references)

**Application Note:** Anti-Mouse IgG F(ab')<sub>2</sub> antibody has been tested by ELISA and is suitable for ELISA, western blot, and immunohistochemistry, as well as other assays requiring lot-to-lot consistency.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:75,000

**IHC:** 1:1,000 - 1:5,000

**WB:** 1:2,000 - 1:10,000

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1.5 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

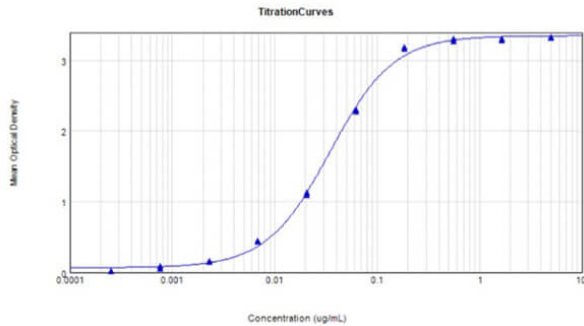
## Shipping & Handling

**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



### ELISA

ELISA Results of Rabbit Anti-Mouse IgG F(ab')<sub>2</sub> Antibody tested against purified Mouse IgG F(ab')<sub>2</sub>. Each well was coated in duplicate with 10 µg of Mouse IgG F(ab')<sub>2</sub> (p/n 010-0104). The starting dilution of antibody was 5 µg/ml and the X-axis represents the Log<sub>10</sub> of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC<sub>50</sub> is defined as the titer of the antibody. Assay performed using 3% Fish Gel/PBS Blocking buffer (p/n MB-066), goat Anti-Rabbit IgG HRP conjugated (p/n 611-103-122) and TMB substrate (p/n TMBE-1000).

### References

- Rui H et al. JAK2 activation and cell proliferation induced by antibody-mediated prolactin receptor dimerization. *Endocrinology*. (1994)

### 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.