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Datasheet for 609-4118

# Human IgG F(ab')2 Antibody pre-absorbed

## Overview

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| **Description:** | Rabbit Anti-Human IgG F(ab')2 Antibody (Min X MOUSE Serum Proteins) - 609-4118 |
| **Item No.:** | 609-4118 |
| **Size:** | 2 mg |
| **Applications:** | Dot Blot, ELISA, WB |
| **Reactivity:** | Human |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | Anti-Human IgG F(ab')2 Antibody generated in rabbit recognizes the dimeric Fab portion of the human IgG molecule. Human IgG F(ab')2 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')2 molecules lack the Fc portion of IgG and therefore receptors that bind human IgG F(c) will not bind human IgG F(ab')2 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. Anti-Human IgG F(ab')2 Antibody is ideal for investigators in Immunology, Cancer, and Microbiology research. |
| **Synonyms:** | F(ab')2 Human IgG Antibody, Rb-a-Human F(ab')2 IgG, F(ab')2 Human IgG Antibody in Rabbit, Pre-Adsorbed Human IgG Secondary Antibody |
| **Host Species:** | Rabbit |
| **Specificity:** | IgG F(ab')2 |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Reactivity:** | Human |

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| **Immunogen:** | Anti-Human IgG F(ab')2 fragment was produced in rabbit by repeated immunization with human IgG F(ab')2 fragment. |
| **Purity/Specificity:** | Anti-Human IgG F(ab')2 antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Human IgG coupled to agarose beads followed by solid phase adsorption (s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, Human IgG, Human IgG F(ab')2 and Human Serum. No reaction was observed against Human IgG F(c) or Mouse Serum Proteins. |

## Application Details

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| **Tested Applications:** | Dot Blot, ELISA |
| **Suggested Applications:** | WB (Based on references) |
| **Application Note:** | Anti-Human IgG F(ab')2 antibody has been tested by ELISA and dot blot and is suitable for western blotting, IHC and for ELISA. Researchers should determine optimal titers for applications that are not stated below. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:350,000 |
| **IHC:** | 1:1,000 - 1:5,000 |
| **WB:** | 1:3,000 - 1:15,000 |

## Formulation

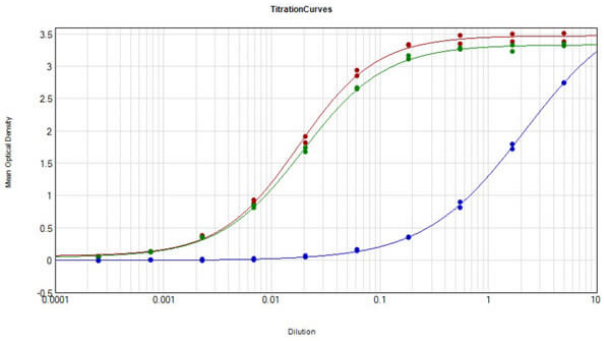
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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 2.0mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.01% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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| **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-Human IgG F(ab')2 Antibody (Min X Mouse Serum Proteins) tested against purified Human IgG F(ab')2 Mx Ms. Each well was coated in duplicate with 1.0 µg of Human IgG F(ab')2 (p/n 009-0104) [Red Line], Human IgG (p/n 009-0102) [Green Line], and Mouse IgG (p/n 010-0102) [Blue Line]. The working dilution of Human IgG F (ab')2 MX is 1:56300. 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 HRP Conjugation Stabilizer (p/n MB-076), Goat Anti-Rabbit HRP conjugated (p/n 611-103-122), and TMB substrate (p/n TMBE-1000).

## References

- Kameoka Y et al. Efficacy of a recombinant single-chain fragment variable region, VasSF, as a new drug for vasculitis. *Drug Des Devel Ther.* (2019)

## 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.