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Datasheet for 609-4118

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

Overview

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

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

Reactivity:	Human

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

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

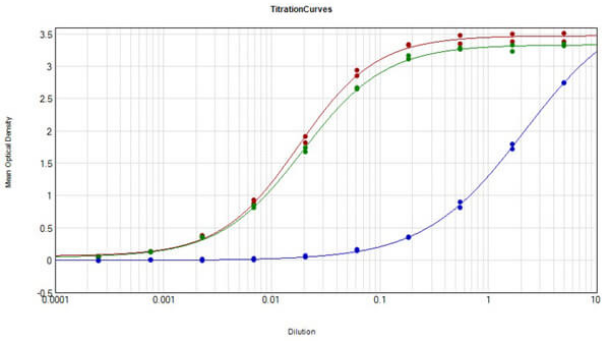
Physical State:	Liquid (sterile filtered)
Concentration:	2.0mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

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)

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