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Datasheet for 009-0604

Human IgG F(ab')2 Biotin

Overview

Description:	Human IgG F(ab')2 Fragment Biotin Conjugated - 009-0604
Item No.:	009-0604
Size:	1 mg
Applications:	Dot Blot, ELISA
Origin:	Human

Product Details

Background:	Human IgG F(ab')2 purified protein is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme pepsin under controlled conditions of temperature, time and pH. Human IgG F(ab')2 molecules lack the Fc portion of Human IgG and therefore receptors that bind Human IgG Fc will not bind Human IgG F(ab')2 molecules. This product possesses the F(ab')2 fragment, recognized by the two F(ab) fragments yielded from the digestion of the antibody below the disulfide bond hinge region.
Synonyms:	Human IgG F(ab')2 Fragment Biotin Conjugate, Human IgG Fab2 Fragment Biotin Conjugation
Species of Origin:	Human
Conjugate:	Biotin
Format:	IgG F(ab')2
Type:	Native Protein

Target Details

Purity/Specificity:	This product was prepared from normal serum by delipidation, salt fractionation, ion exchange chromatography followed by pepsin digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Human IgG, anti-Human IgG F(ab')2 and anti-Human Serum. No reaction was observed against anti-Human IgG F(c) or anti-Pepsin.

Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Human IgG F(ab')2 fragment Biotin antibody has been tested in dot blot and ELISA and are ideal for ELISA, western blotting, Immunohistochemistry, Fluorescence Microscopy, Flow Cytometry as well as other antibody detection methods.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

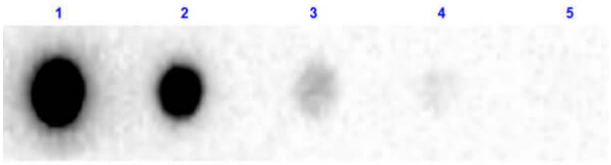
Formulation

Physical State:	Lyophilized
Concentration:	1.0 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:	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. 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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Dot Blot

Dot Blot results of Human IgG F(ab')2 Fragment Biotin Conjugated. Antigen: Human IgG F(ab')2 Fragment Biotin Conjugated. Blot loaded at 3 fold dilution: 1. 100ng, 2. 33.3ng, 3. 11.1ng, 4. 3.70ng, 5. 1.23ng. Blocking: MB-070 Buffer for 30 minutes at RT. Secondary Antibody: Streptavidin-HRP (p/n S000-03) at 1:40,000 for 30 min at RT. Imaging System ChemiDoc, Filter used: Chemi.

Disclaimer

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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