Datasheet for ABIN101612

Goat anti-Human IgG (F(ab')2 Region) Antibody (HRP)

2 Images

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Overview

Quantity:	20 mg
Target:	IgG
Binding Specificity:	F(ab')2 Region
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	HRP
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Purpose:	Human IgG F(ab')2 Antibody Peroxidase Conjugated
Immunogen:	Immunogen: Anti-Human IgG F(ab')2 was produced by repeated immunization with human IgG F(ab')2 fragment in goat. Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Human IgG, Human IgG F(ab')2 and Human Serum. No reaction was observed against Human IgG F(c).
Characteristics:	Anti-Human IgG F(c) Peroxidase Conjugated generated in goat detects Human F(c). A proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme papain under controlled conditions of temperature, time and pH .

Product Details

Purification:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.

Target Details

Target:	IgG
Abstract:	IgG Products
Target Type:	Antibody
Background:	Anti-Human IgG F(ab')2 Peroxidase Antibody generated in goat 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.

Application Details

Application Notes:	Application Note: This product has been assayed against 1.0 µg of Human IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product. Immunohistochemistry Dilution: 1:500 - 1:2,500 Western Blot Dilution: 1:1,000 - 1:10,000 ELISA Dilution: 1:10,000 - 1:50,000 Other: User Optimized
Restrictions:	For Research Use only

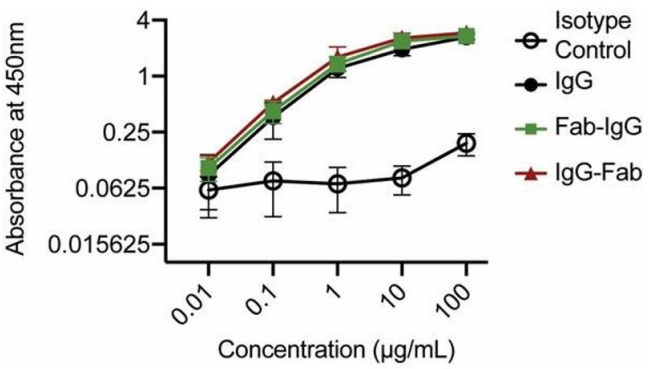
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 2.0 mL
Concentration:	10.0 mg/mL

Handling

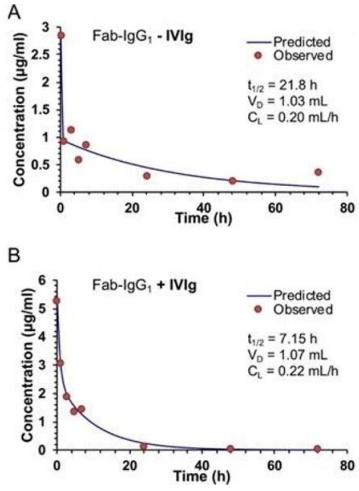
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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.
Expiry Date:	12 months

Images



ELISA

Image 1. Whole sperm ELISA to assess the binding potency of the indicated Abs to human sperm. The serial dilution of mAbs in 1 % milk was added to the microwells and incubated overnight at 4 °C. Motavizumab (anti-RSV IgG1) was used as the isotype control. After primary incubation, the plates were washed three times using 1X PBS. Then, the secondary Ab, goat anti-human IgG F(ab')2 Ab HRP-conjugated (1:10,000 dilutions in 1 % milk, p/n 209-1304) was added to the wells and incubated for 1 hr at room temperature. Data represent 3 independent experiments with 3 unique semen donors. Each experiment was performed in triplicates and averaged. Lines indicate arithmetic mean values and standard deviation. Figure S4. PMID: 32937206.



ELISA

Image 2. ELISA results using Goat Anti-Human IgG F(ab')2 Antibody Peroxidase Conjugated. High dose IVIg reduces the circulation kinetics of bispecific Ab by 3-fold. A) The serum circulation profile of bispecific Fab-IgG1 (30 µg) in athymic nude mice (n = 8 total mice, 4 mice per time point). B) The serum circulation profile of bispecific Fab-IgG1 (30 µg) in the presence of high dose IVIg (30 mg) in athymic nude mice (n = 8 total mice, 4 mice per time point). The solid line for both figures represents the predicted fit for a two-compartment model used to calculate the elimination half-life (t1/2), volume of distribution (VD), and clearance (CL). Figure 3. PMID: 31394261.