

Product Datasheet

Human IgG F(ab')₂ Antibody Peroxidase Conjugated (orb346648)

Description	Human IgG F(ab') ₂ antibody (Peroxidase)
Species/Host	Goat
Reactivity	Human
Conjugation	HRP
Tested Applications	ELISA, IHC, WB
Immunogen	Anti-Human IgG F(ab') ₂ was produced by repeated immunization with human IgG F(ab') ₂ fragment in goat.
Preservatives	10 mg/mL Bovine Serum Albumin (rAlbumin) - Immunoglobulin and Protease free. 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Form/Appearance	Lyophilized
Concentration	10.0 mg/mL
Storage	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.
Note	For research use only
Application notes	This product has been assayed against 1.0 ug of Human IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiiazoline-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.
Isotype	IgG

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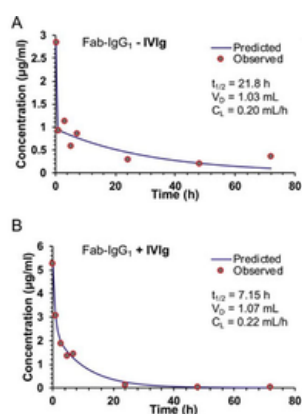
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Clonality Polyclonal

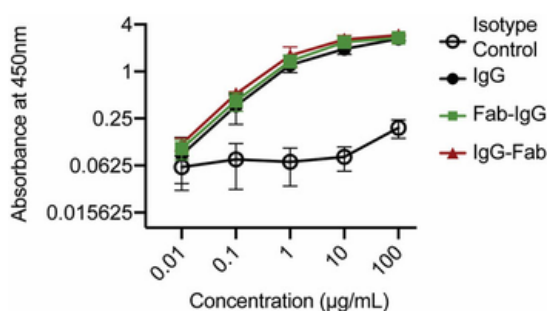
Purity This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single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

Dilution Range ELISA: 1:10,000 - 1:50,000, IHC: 1:500 - 1:2,500, WB: 1:1,000 - 1:10,000

Expiration Date 12 months from date of receipt.



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 (t_{1/2}), volume of distribution (VD), and clearance (CL).



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 (1:10000 dilutions in 1% milk) 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.

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