

Datasheet for 709-1317**F(ab')₂ Human IgG Fc Antibody Peroxidase Conjugated Pre-Adsorbed****Overview**

Description:	Goat F(ab') ₂ Anti-Human IgG Fc Antibody Peroxidase Conjugated (Min X Bv Hs Ms & Rt Serum Proteins) - 709-1317
Item No.:	709-1317
Size:	500 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	F(ab') ₂ Anti-Human IgG F(c) Peroxidase Antibody generated in goat detects Human F(c). Representing approximately 75% of serum immunoglobulins in humans, IgG is the most abundant antibody isotype found in the circulation. IgG molecules are synthesized and secreted by plasma B cells. 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. F(c) Antibody is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
Synonyms:	Goat F(ab') ₂ Anti-Human IgG F(c) Peroxidase Conjugated Pre-Adsorbed Antibody, Goat Fab2 Anti-Human IgG Fc Fragment Peroxidase Conjugated Antibody, Goat F(ab') ₂ Anti-Human IgG F(c) Fragment Antibody HRP Conjugated
Host Species:	Goat
Specificity:	IgG Fc
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG F(ab') ₂

Target Details

Reactivity:	Human
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Immunogen Type:	Native Protein
Immunogen:	Human IgG F(c) fragment
Purity/Specificity:	F(ab') ₂ Anti-Human IgG Fc 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, pepsin digestion and chromatographic separation. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Human IgG, Human IgG F(c) and Human Serum. No reaction was observed against anti-Pepsin, anti-Goat IgG F(c), Human IgG F(ab) or Bovine, Horse, Mouse and Rat Serum Proteins.

Application Details

Tested Applications:	ELISA
Suggested Applications:	WB (Based on references)
Application Note:	F(ab') ₂ Anti-Human IgG F(c) Peroxidase Antibody has been tested by ELISA and is suitable for use in immunoelectrophoresis, western-blot, competitive western-blot, ELISA and competitive ELISA assays. Specific conditions for reactivity and signal detection should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:130,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000

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) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	500 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

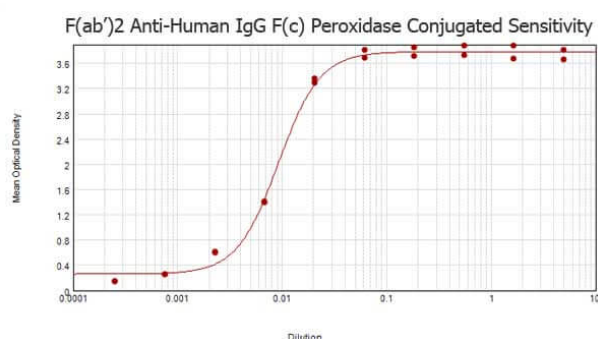
Shipping & Handling

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



ELISA

ELISA results of purified F(ab')₂ Goat anti-Human IgG F(c) Antibody Peroxidase Conjugated min x Bv, Hs, Ms, ant Rt serum proteins tested against purified Human IgG F(c). Each well was coated in duplicate with 1.0 µg of Human IgG F(c) (p/n 009-0103). 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 3% fish gelatin as blocking buffer and TMB substrate p/n TMBE-1000.

References

- McSweeney MD et al. Stable nebulization and muco-trapping properties of regdanvimab/IN-006 support its development as a potent, dose-saving inhaled therapy for COVID-19. *Bioeng Transl Med.* (2022)
- Watanabe N et al. A pull-down and slot blot-based screening system for inhibitor compounds of the podoplanin-CLEC-2 interaction. *PLoS One.* (2019)
- Newby et al. A blueprint for robust crosslinking of mobile species in biogels with weakly adhesive molecular anchors. *Nature Communications* (2017)
- McCallen J et al. Cross-reactivity of select PEG-binding antibodies to other polymers containing a CCO backbone. *ACS Biomater Sci Eng.* (2017)
- Yang Q et al. Analysis of pre-existing IgG and IgM antibodies against polyethylene glycol (PEG) in the general population. *Anal Chem.* (2016)

Disclaimer

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