

Datasheet for 609-1304

Human IgG F(ab')₂ Antibody Peroxidase Conjugated**Overview**

Description:	Goat Anti-Human IgG F(ab') ₂ Antibody Peroxidase Conjugated - 609-1304
Item No.:	609-1304
Size:	2 mg
Applications:	ELISA
Reactivity:	Human
Host Species:	Goat

Product Details

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.
Synonyms:	Goat Anti-Human IgG Fab ₂ Antibody peroxidase Conjugation, Goat Anti-Human IgG F(ab') ₂ peroxidase Conjugated Antibody, Goat Anti-Human IgG Fab ₂ Fragment Antibody HRP Conjugated
Host Species:	Goat
Specificity:	IgG F(ab') ₂
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
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Immunogen:	Human IgG F(ab') ₂ fragment
Purity/Specificity:	Anti-Human IgG F(ab') ₂ 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-Peroxidase, anti-Goat Serum, Human IgG, Human IgG F(ab') ₂ and Human Serum. No reaction was observed against Human IgG F(c).

Application Details

Suggested Applications:	ELISA (Based on references)
Application Note:	Anti-Human IgG F(ab') ₂ has been assayed against 1.0 ug of Human IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1:30,000 to 1:150,000 is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:10,000

Formulation

Physical State:	Lyophilized
Concentration:	2.0 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:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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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.

References

- Sagawa F et al. Determination of the factors associated with antigen-specific CD4+ T-cell responses to BNT162b2 in patients with rheumatoid arthritis. *RMD Open*. (2024)

Disclaimer

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