

Datasheet for 610-4321**Mouse IgG F(ab')₂ Antibody Peroxidase Conjugated Pre-Adsorbed****Overview**

Description:	Rabbit Anti-Mouse IgG F(ab') ₂ Antibody Peroxidase Conjugated (Min X Human Serum Proteins) - 610-4321
Item No.:	610-4321
Size:	1 mg
Applications:	ELISA
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse IgG F(ab') ₂ Peroxidase Antibody generated in rabbit recognizes the dimeric Fab portion of the mouse IgG molecule. Mouse 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 mouse IgG Fc will not bind mouse 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:	Rabbit Anti-Mouse IgG F(ab') ₂ Antibody peroxidase Conjugation, Rabbit Anti-Mouse IgG Fab2 Antibody peroxidase Conjugated, Rabbit Anti-Mouse IgG Fab2 Fragment HRP Conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG F(ab') ₂
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse
--------------------	-------

Immunogen:	Mouse IgG F(ab') ₂ fragment
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse 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-Rabbit Serum, Mouse IgG, Mouse IgG F(ab') ₂ and Mouse Serum. No reaction was observed against Mouse IgG F(c) or Human Serum Proteins.

Application Details

Suggested Applications:	ELISA (Based on references)
Application Note:	Anti-Mouse IgG F(ab') ₂ Peroxidase conjugate is suitable for immunoblotting (western or dot blot), ELISA, immunoelectron microscopy and immunohistochemistry as well as other antibody-based enzymatic assays requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:16,000
IHC:	1:500 - 1:2,000
WB:	1:500 - 1:2,000

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:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

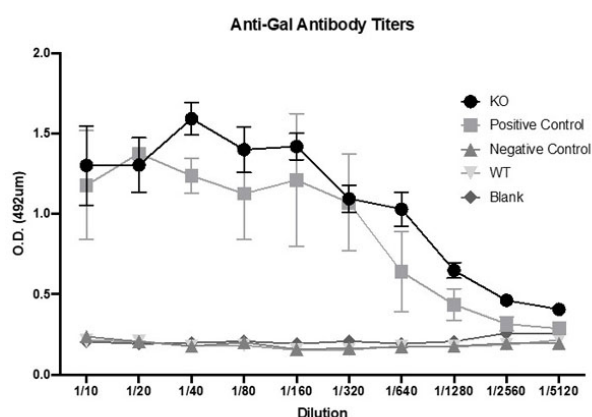
Shipping & Handling

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.

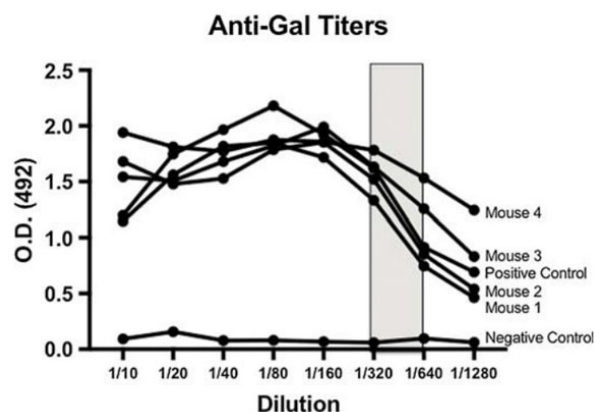
Expiration: Expiration date is one (1) year from date of receipt.

Images



ELISA

Titers for anti-Gal antibodies. Serial 1:2 dilutions of serum from α 1,3galactosyltransferase knockout mice were incubated on plates coated with α -gal-linked bovine serum albumin. Titers of 1:160 or greater were considered immunity comparable with human titers and appropriate for use in experimentation. Supplementary Figure 1. PMID: 34348342.



ELISA

Titers for anti-Gal antibodies. Serial 1:2 dilutions of serum from α 1,3galactosyltransferase knockout mice were incubated on plates coated with α -gal-linked bovine serum albumin. Titers of 1:160 or greater were considered immunity comparable with human titers and appropriate for use in experimentation. Highlighted area in yellow shows titers of tested mice at 1:320 and ~1:640, greater than the needed threshold. FIGURE 1. PMID: 29481481.

References

- Samadi A et al. Topical α -gal Nanoparticles Enhance Wound Healing in Radiated Skin. *Skin Pharmacol Physiol.* (2022)
- Kaymakcalan OE et al. Topical α -gal nanoparticles accelerate diabetic wound healing. *Exp Dermatol.* (2020)
- Kaymakcalan OE et al. Antigen-Mediated, Macrophage-Stimulated, Accelerated Wound Healing Using α -Gal Nanoparticles. *Ann Plast Surg.* (2018)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.