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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 F(c) 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

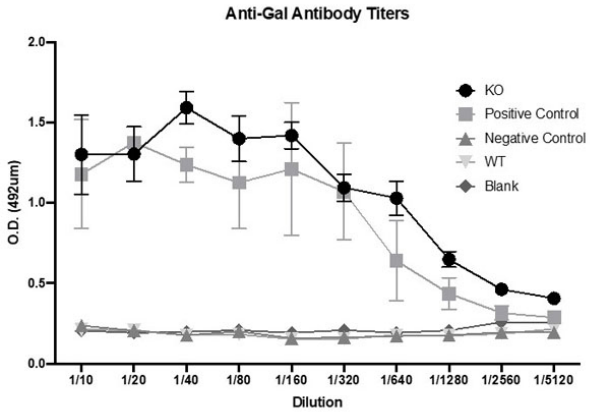
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

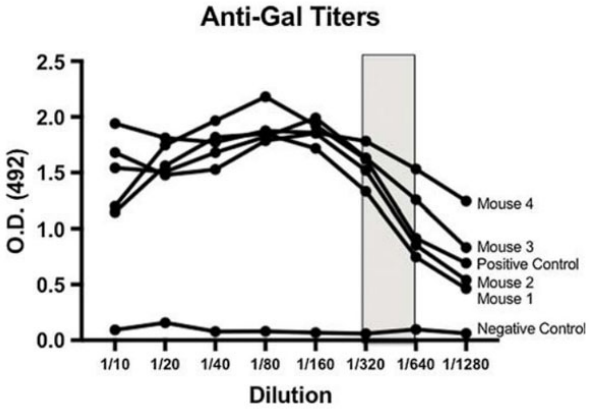
Shipping Condition:	Ambient

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 α1,3galactosyltransferase 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 α1,3galactosyltransferase 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)

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