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Datasheet for 610-4341

Mouse IgG2a (Gamma 2a chain) Antibody Peroxidase Conjugated

Overview

Description:	Rabbit Anti-Mouse IgG2a (Gamma 2a chain) Antibody Peroxidase Conjugated - 610-4341
Item No.:	610-4341
Size:	1 mg
Applications:	ELISA
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse IgG2a heavy chain antibody generated in rabbit detects specifically Mouse IgG2a heavy chain. This secondary antibody anti-Mouse is ideal for investigators who routinely perform titration assays, western-blot, immunoprecipitation and more generally immunoassays.
Synonyms:	Rabbit Anti-Mouse IgG2a (gamma 2a chain) Antibody peroxidase Conjugated, Rabbit Anti-Mouse IgG2a Antibody HRP Conjugation
Host Species:	Rabbit
Specificity:	IgG2a
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	0.6

Target Details

Reactivity:	Mouse
Immunogen Type:	Native Protein
Immunogen:	Anti-Mouse IgG2a heavy chain antibody was produced by repeated immunization with Mouse IgG2a heavy chain in rabbit.

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 and Mouse Serum. Specificity was confirmed by ELISA at less than 1% cross reactivity against other mouse or heavy or light chain isotypes.

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Mouse IgG2a heavy chain Peroxidase Conjugated antibody has been tested by ELISA and is suitable for highly specific immunological methods requiring extremely low background levels, lot-to-lot consistency, high titer and specificity.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000
Other:	User Optimized

Formulation

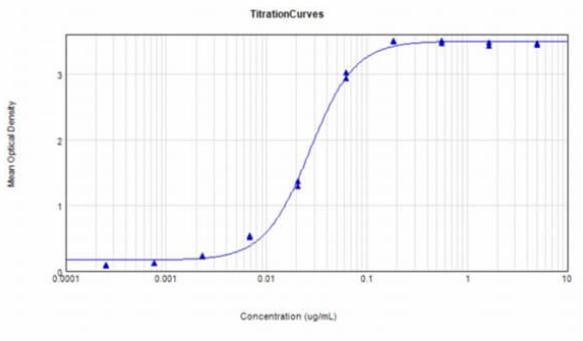
Physical State:	Lyophilized
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution 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
ELISA Results of Rabbit Anti-Mouse IgG2a Antibody Peroxidase Conjugated tested against purified Mouse IgGa HRP. Each well was coated in duplicate with 10 µg of Mouse IgG2a (p/n 010-0141). The working dilution is 1:37,000. 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 Gel/PBS Blocking buffer (p/n MB-066) and TMB substrate (p/n TMBE-1000).

References

- Islam MS et al. Enhanced Transdermal Immunization via Solid-in-Oil Nanodispersions Incorporating Dendritic Cell-Targeting Peptide. *Molecules.* (2026)
- Kitaoka et al. A Solid-in-Oil Nanodispersion System for Transcutaneous Immunotherapy of Cow's Milk Allergies. *Pharmaceutics* (2020)
- Wakabayashi R et al. Transcutaneous codelivery of tumor antigen and resiquimod in solid-in-oil nanodispersions promotes antitumor immunity. *ACS Biomater Sci Eng.* (2019)
- Miller DS et al. Preclinical efficacy studies of influenza A haemagglutinin precursor cleavage loop peptides as a potential vaccine. *J Gen Virol.* (2011)

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