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Datasheet for 610-4541

Mouse IgG2a (Gamma 2a chain) Antibody Alkaline Phosphatase Conjugated

Overview

Description:	Rabbit Anti-Mouse IgG2a (Gamma 2a chain) Antibody Alkaline Phosphatase Conjugated - 610-4541
Item No.:	610-4541
Size:	1 mg
Applications:	Dot Blot, ELISA, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse IgG2a Alkaline Phosphatase antibody generated in rabbit detects reactivity to Mouse IgG2a (Gamma 2a chain). Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. IgG2, the second largest of IgG isotypes, comprises almost 25% of IgG and has a low affinity for binding to the Fc receptor of phagocytic 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.
Synonyms:	Rabbit Anti-Mouse IgG2a (gamma 2a chain) Antibody alkaline phosphatase Conjugated, Rabbit Anti-Mouse IgG2a Antibody alk phos Conjugation
Host Species:	Rabbit
Specificity:	IgG2a
Conjugate:	Alkaline Phosphatase (AP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse

Immunogen:	Mouse IgG2a heavy chain
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using antigens 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-Alkaline Phosphatase (calf intestine) and anti-Rabbit Serum. Specificity was confirmed by ELISA at less than 1% cross reactivity against other mouse heavy or light chain isotypes.

Application Details

Tested Applications:	Dot Blot, ELISA, WB
Application Note:	Anti-Mouse IgG2a Alkaline Phosphatase antibody has been tested by ELISA, dot blot, and western blot This antibody is assayed against 1.0 µg of Mouse IgG in a standard capture ELISA using pNPP p-nitrophenyl phosphate code # NPP-10 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:5,000 is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000 - 1:10,000
IHC:	1:200 - 1:1,000
WB:	1:500 - 1:2,500

Formulation

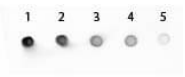
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Shipping & Handling

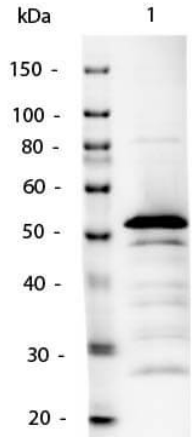
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C before opening. DO NOT FREEZE. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity.

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

Images



Dot Blot
Dot Blot of Mouse IgG2a Antibody Alkaline Phosphatase Conjugated. Antigen: Mouse IgG2a Load: Lane 1 - 200ng Lane 2 - 66.7ng Lane 3 - 22.2ng Lane 4 - 7.4 Lane 2.5ng Primary antibody: none Secondary antibody: Mouse IgG2a Antibody Alkaline Phosphatase Conjugated at 1:1,000 for 60 min at RT. Block: MB-070 for 60 min at RT Reaction visualized using alkaline phosphatase substrate for 30 seconds at RT.



Western Blot
Western Blot of Mouse IgG2a Antibody Alkaline Phosphatase Conjugated. Lane 1: Mouse IgG2a. Lane 2: none. Load: 50ng per lane. Primary antibody: none. Secondary antibody: Mouse IgG2a Antibody Alkaline Phosphatase Conjugated at 1:1,000 o/n at 4°C. Block: MB-070 for 30 min at RT. Reaction visualized with alkaline phosphatase substrate for 30 seconds at RT. Predicted/Observed size: 55kDa for Mouse IgG2a.

References

- Ahmed N et al. Toxoplasma Co-infection Prevents Th2 Differentiation and Leads to a Helminth-Specific Th1 Response. *Front Cell Infect Microbiol.* (2017)

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