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Datasheet for 610-4503

Mouse IgG Fc Antibody Alkaline Phosphatase Conjugated

Overview

Description:	Rabbit Anti-Mouse IgG Fc Antibody Alkaline Phosphatase Conjugated - 610-4503
Item No.:	610-4503
Size:	1 mg
Applications:	Dot Blot, ELISA
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Mouse IgG F(c) generated in rabbit is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme papain under controlled conditions of temperature, time and pH. Receptors bind the Fc portion of mouse IgG and often this fragment is removed from immunoglobulins to minimize receptor binding and lower background reactivity.
Synonyms:	Rabbit Anti-Mouse IgG F(c) Antibody alkaline phosphatase Conjugation, Rabbit Anti-Mouse IgG Fc Antibody alkaline phosphatase Conjugated, Rabbit Anti-Mouse IgG Fc Fragment alk phos Conjugated Antibody
Host Species:	Rabbit
Specificity:	IgG Fc
Conjugate:	Alkaline Phosphatase (AP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG F(c) 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-Alkaline Phosphatase (calf intestine), anti-Rabbit Serum, Mouse IgG, Mouse IgG F(c) and Mouse Serum. No reaction was observed against Mouse IgG F(ab).

Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Anti-Mouse IgG F(c) Alkaline Phosphatase conjugate has been tested by dot blot and ELISA and 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:	1:5,000 - 1:15,000
IHC:	1:200 - 1:1,000
WB:	1:500 - 1:2,500

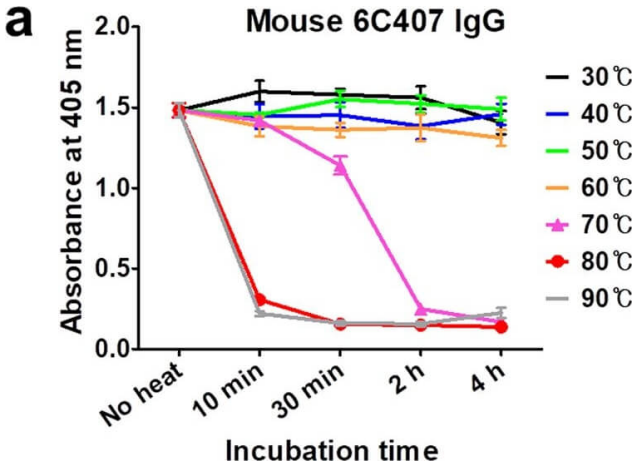
Formulation

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:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

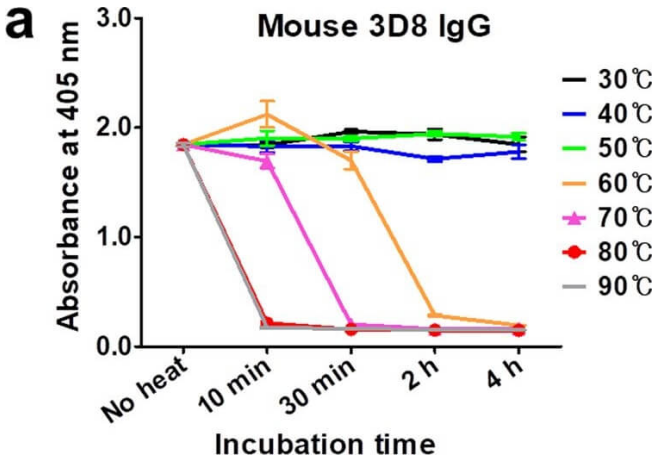
Shipping & Handling

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.

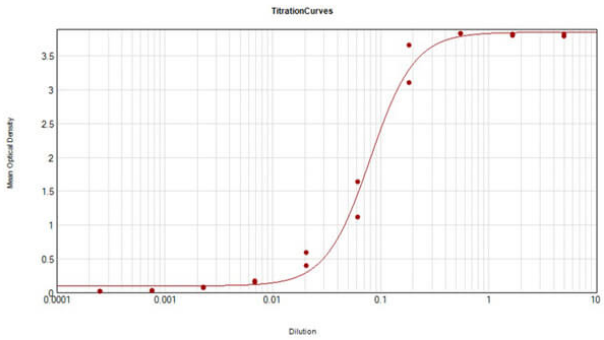
Images



ELISA
ELISA and SDS-PAGE analysis under thermal stress. (a,c,e) ELISA of the antigen-binding activity of 6C407-derived antibodies. Purified 6C407 antibodies were heated under the specified conditions, placed in wells coated with KIFC143–54 peptide (EDGLEPEKKRTR), and bound 6C407 antibodies were detected with AP-conjugated antibodies specific for mouse IgG/Fc (a), human IgG/Fc (b), or chicken IgY/υ chain (c). Data are presented as mean ± SD (n = 3). (b,d,f) SDS-PAGE analysis of antibody integrity. Purified 6C407 antibodies were heated under the specified conditions then subjected to SDS-PAGE under reducing conditions using a 12% polyacrylamide gel, followed by staining with Coomassie Blue. Figure provided by CiteAb. Source: Sci Rep, PMID: 31848417.



ELISA
ELISA and SDS-PAGE analysis under thermal stress. (a,c,e) ELISA of the antigen-binding activity of 3D8 antibodies. Purified 3D8-derived antibodies were heated under the specified conditions, placed in wells coated with plasmid DNA antigen (pUC19), and bound 3D8 antibodies were detected with AP-conjugated antibodies specific for mouse IgG/Fc (a), human IgG/Fc (b), or chicken IgY/υ chain (c). Data are presented as mean ± SD (n = 3). (b,d,f) SDS-PAGE analysis of antibody integrity. Purified 3D8 antibodies were heated under the specified conditions then subjected to SDS-PAGE under reducing conditions using a 12% polyacrylamide gel, followed by staining with Coomassie Blue. Figure provided by CiteAb. Source: Sci Rep, PMID: 31848417.



ELISA
ELISA Results of Rabbit Anti-Mouse IgG F(c) Antibody Alkaline Phosphatase Conjugated tested against purified Mouse IgG F(c) Alk Phos. Each well was coated in duplicate with 1.0 µg of Mouse IgG F(c) (p/n 010-0103). The working dilution is 1: 12,500. 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 HRP Conjugated Stabilizer (p/n MB-076), ELISA Alkaline Phosphatase Conjugation Buffer (p/n NPP-10), NPP Working Buffer (p/n NPP-B500).

References

- Choi J et al. Antigen-binding affinity and thermostability of chimeric mouse-chicken IgY and mouse-human IgG antibodies with identical variable domains. *Sci Rep.* (2019)

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