

Datasheet for 609-1503

Human IgG Fc Antibody Alkaline Phosphatase Conjugated

Overview

Description:	Goat Anti-Human IgG Fc Antibody Alkaline Phosphatase Conjugated - 609-1503
Item No.:	609-1503
Size:	1 mg
Applications:	ELISA
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Anti-Human IgG F(c) Alkaline Phosphatase Conjugated generated in goat detects Human F(c). 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 human IgG and often this fragment is removed from immunoglobulins to minimize receptor binding and lower background reactivity. 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. F(c) Antibody is ideal for investigators who routinely perform flow cytometry, immunohistochemistry or IHC and other immunoassays.
Synonyms:	goat anti-Human IgG F(c) alkaline phosphatase Conjugated Antibody, goat anti-Human IgG F(c) fragment antibody alk phos conjugation
Host Species:	Goat
Specificity:	IgG Fc
Conjugate:	Alkaline Phosphatase (AP)
Clonality:	Polyclonal
Format:	IgG

Target Details

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

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Human IgG F(c) Alkaline Phosphatase Conjugated has been tested by 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:	1:75,000 - 1:125,000
IHC:	1:200 - 1:1,000
WB:	1:1,000 - 1:10,000

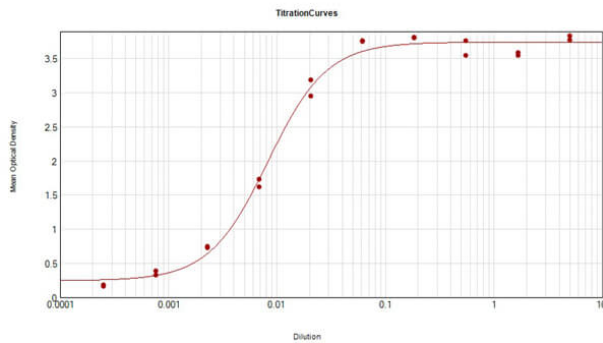
Formulation

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



ELISA

ELISA Results of purified Goat Anti-Human IgG F(c) Antibody Alkaline Phosphatase Conjugated tested against purified Human IgG F(c) Alk Phos. Each well was coated in duplicate with 1.0 μg of Human IgG F(c) (p/n 009-0103). The working dilution is 1:121,000. The starting dilution of antibody was 5 $\mu\text{g}/\text{ml}$ 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 ELISA Alkaline Phosphatase Conjugate Buffer (p/n NPP-10), NPP Working Buffer (p/n NPP-B500), and TMB substrate (p/n TMBE-1000).

References

- Noda T et al. Effective Blocking and Stabilizing Methods Using Synthetic Polymer on ELISA. *Methods Mol Biol.* (2023)

Disclaimer

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