Datasheet for ABIN5608101

Goat anti-Ferret IgG Antibody (HRP)

2 Images

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Overview

Quantity:	1 mg
Target:	IgG
Reactivity:	Ferret
Host:	Goat
Clonality:	Polyclonal
Conjugate:	HRP
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Purpose:	Ferret IgG (gamma chain) Antibody Peroxidase Conjugated
Immunogen:	Immunogen: Anti-Ferret IgG (gamma chain) was produced by repeated immunization with ferret IgG gamma heavy chain in goat. Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Ferret IgG and Ferret Serum. Specificity was confirmed by ELISA at less than 1 % cross reactivity against other Ferret heavy or light chain isotypes.
Characteristics:	Anti-Ferret IgM antibody specifically detects ferret IgM.
Purification:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Ferret IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities.

Target Details

Target:	IgG
Abstract:	IgG Products
Target Type:	Antibody
Background:	Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75 % of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present.

Application Details

Application Notes:	Application Note: Antibody Anti-Ferret IgG (gamma chain) peroxidase conjugated is suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring lot-to-lot consistency. Immunohistochemistry Dilution: 1:500 - 1:2,500 Western Blot Dilution: 1:1,000 - 1:5,000 ELISA Dilution: 1:10,000 - 1:50,000 Other: User Optimized
Restrictions:	For Research Use only

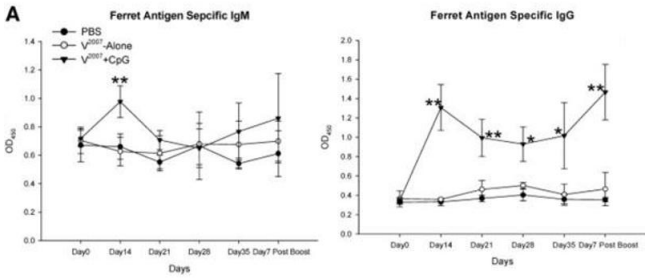
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 1.0 mL
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free , Preservative:0.01 % (w/v) Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

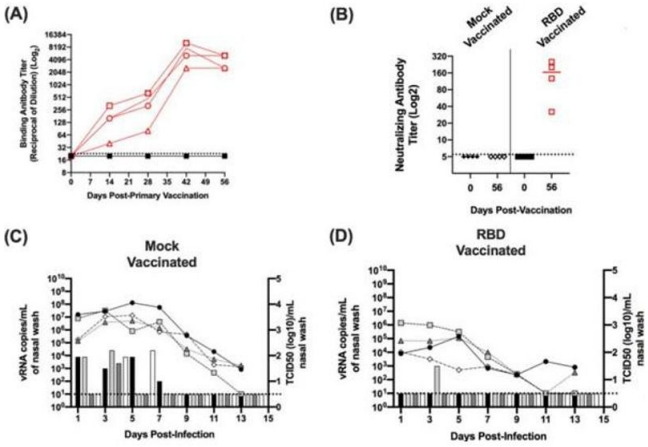
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



ELISA

Image 1. ELISA results using Goat Anti-Ferret IgG Antibody Peroxidase Conjugated. CpG ODN-assisted vaccination increased influenza virus-specific antibody levels in serum from immunized ferrets. Influenza virus-specific antibody levels in serum from immunized ferrets were assessed by ELISA (A). (A) Serum IgM (left) and IgG (right) antibody levels against the commercial vaccine Fluviral were measured at days 0, 14, 21, 28, and 35 and day 7 postboost. The average relative absorbance densities read at 450 nm from three individual samples were plotted graphically. FIG. 1. PMID: 20534862.



ELISA

Image 2. ELISA results using Goat Anti-Ferret IgG Antibody Peroxidase Conjugated. Antibody and viral titers in SARS-CoV-2-infected mock- and RBD-vaccinated ferrets. (A) Displays binding antibody titers against the S protein RBD determined by ELISA on days 0, 14, 28, 42, and 56 postprimary vaccination. Red open symbols represent RBD-vaccinated ferrets. Closed black symbols represent mock-vaccinated animals. Animals were given a secondary vaccination on day 28. (B) Displays neutralizing antibody titers on day 56. (C and D) Display nasal wash titers in mock- and RBD-vaccinated animals challenged with SARS-CoV-2, respectively. Line graphs indicate levels of vRNA determined via N2 gene qRT-PCR (left y axis), and bar

graphs indicate infectious titers (right y axis) determined via TCID50 on Vero cells. Horizontal dashed lines indicate limit of detection. Fig3. PMID: 33827954.