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Datasheet for 618-103-007

Ferret IgM (mu chain) Antibody Peroxidase Conjugated

Overview

Description:	Goat Anti-Ferret IgM (mu chain) Antibody Peroxidase Conjugated - 618-103-007
Item No.:	618-103-007
Size:	1 mg
Applications:	ELISA
Reactivity:	Ferret
Host Species:	Goat

Product Details

Background:	Anti-Ferret IgM antibody specifically detects ferret IgM. Immunoglobulin M is the largest antibody isotype and the first to be secreted against an initial exposure to antigen. IgM is predominantly produced in the spleen. Formed from covalently linking 5 immunoglobulins together, the approximate molecular weight of IgM is 900kDa and possesses 10 binding sites (though due to the size of most antigens, not all sites are capable of binding at once). Due to this large size, IgM is typically isolated to the serum. Anti-Ferret IgM antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology.
Synonyms:	goat anti-Ferret IgM mu chain Antibody peroxidase conjugation, goat anti-ferret IgM mu HRP conjugated antibody
Host Species:	Goat
Specificity:	IgM μ chain
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Ferret
Immunogen:	Ferret IgM whole molecule

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Ferret IgM 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-Goat Serum, Ferret IgM and Ferret Serum. No reaction was observed against other ferret heavy or light chain proteins.

Application Details

Suggested Applications:	ELISA (Based on references)
Application Note:	Anti-Ferret IgM Peroxidase conjugate 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:	1:10,000 - 1:50,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000

Formulation

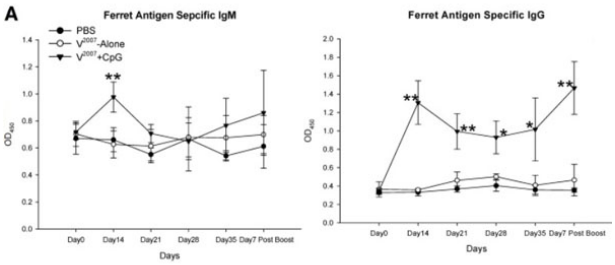
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Thimerosal
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution 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 using Goat Anti-Ferret IgM 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.

References

- Fang Y et al. Molecular characterization of in vivo adjuvant activity in ferrets vaccinated against influenza virus. *J Virol.* (2010)

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