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Datasheet for 618-106-012

Ferret IgG (gamma chain) Antibody Biotin Conjugated

Overview

Description:	Goat Anti-Ferret IgG (gamma chain) Antibody Biotin Conjugated - 618-106-012
Item No.:	618-106-012
Size:	1 mg
Applications:	ELISA
Reactivity:	Ferret
Host Species:	Goat

Product Details

Background:	Anti-Ferret IgG Biotin antibody generated in goat detects ferret IgG. 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.
Synonyms:	goat anti-Ferret IgG Antibody Biotin Conjugation, goat anti-Ferret IgG Biotin Conjugated Antibody
Host Species:	Goat
Specificity:	IgG (gamma chain)
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Ferret
Immunogen:	Ferret IgG gamma heavy chain

Purity/Specificity:	Anti-FERRET IgG (gamma chain) (GOAT) Antibody 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. Anti-FERRET IgG (gamma chain) (GOAT) Antibody assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Goat Serum, Ferret IgG and Ferret Serum. No reaction was observed against Ferret IgA or Ferret IgM.

Application Details

Suggested Applications:	ELISA (Based on references)
Application Note:	Anti-FERRET IgG (gamma chain) (GOAT) Antibody is suitable for immunoblotting (western or dot blot), ELISA, and immunohistochemistry requiring extremely low background levels, lot-to-lot consistency, high titer and specificity.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

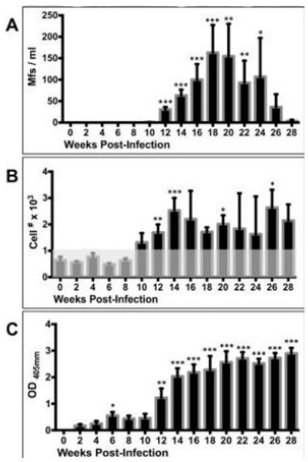
Physical State:	Lyophilized
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution 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 IgG Antibody Biotin Conjugated.
Time course of microfilaremia, eosinophilia and plasma levels of BmAg-specific IgG in B. malayi-infected ferrets. The mean and SEM values of (A) microfilaria per milliliter of blood, (B) eosinophil numbers per microliter of blood (shaded box indicates the normal cell range for ferrets), and (C) BmAg-specific IgG levels produced following B. malayi infection. Weeks 0 to 8 PI, n = 12; weeks 10 to 16 PI, n = 8; weeks 18–28, n = 4. Baseline values of Mfs/ml, eosinophil numbers, and antibody ODs were compared to corresponding values at the indicated post-infection timepoints for statistical significance; *p< 0.05, **p<0.01, ***p<0.001 (Kruskal-Wallis test, followed by Dunn post hoc multiple comparisons).
Fig 2. PMID: 29601572.

References

- Jackson-Thompson et al. Brugia malayi infection in ferrets - A small mammal model of lymphatic filariasis. *PLOS Neglected Tropical Diseases* (2018)

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