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Datasheet for 618-103-130

Ferret IgG IgA IgM (H&L) Antibody Peroxidase Conjugated

Overview

Description:	Goat Anti-Ferret IgG IgA IgM (H&L) Antibody Peroxidase Conjugated - 618-103-130
Item No.:	618-103-130
Size:	1 mg
Applications:	Other
Reactivity:	Ferret
Host Species:	Goat

Product Details

Background:	Anti-Ferret IgG IgA IgM Peroxidase Antibody generated in goat detects immunoglobulin G, A, and M from ferret. Immunoglobulin G binds to antigens and can neutralize or opsonize targets, and are predominantly involved in the secondary immune response. Immunoglobulin A (IgA) is an antibody that plays a critical role in mucosal immunity. IgA has two subclasses (IgA1 and IgA2) and can exist in a dimeric form called secretory IgA (sIgA). Immunoglobulin M, or IgM, is a pentamer composed of 5 immunoglobulin molecules linked through their F(c) domain by the J chain.
Synonyms:	goat anti-Ferret IgG IgA IgM Antibody peroxidase conjugation, goat anti-ferret IgGAM HRP conjugated antibody
Host Species:	Goat
Specificity:	IgG IgA IgM
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Ferret
Immunogen Type:	Native Protein

Immunogen:	Anti-Ferret IgG IgA and IgM whole molecule was produced by repeated immunization with Ferret IgG IgA and IgM whole molecules in goat.
Purity/Specificity:	This product was prepared from polyspecific antiserum by immunoaffinity chromatography using antigens coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Ferret IgG, Ferret IgA and Ferret IgM. This reagent is suitable for the detection of all Ferret immunoglobulin subclasses and chain combinations.

Application Details

Suggested Applications:	Other (Based on references)
Application Note:	Anti-Ferret IgG IgA and IgM whole molecule antibody is suitable for use in immunoelectrophoresis, western-blot, competitive western-blot, ELISA and competitive ELISA assays. Specific conditions for reactivity and signal detection should be optimized by the end user.
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

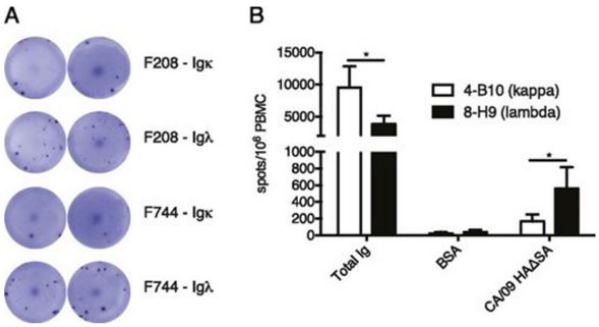
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Thimerosal
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution 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
ELISPOT results using Goat Anti-Ferret HRP.
Enumeration of influenza-elicited ASCs. Ferret PBMCs harvested in day 8 post infection with CA/09 were assessed for Ab production by ELISPOT. (A) Representative ELISPOT wells revealing κ (Igκ) or λ (Igλ) ASCs producing CA/09 HAΔSA–reactive Ab; n = 2, ≈18,500 viable cells plated into representative wells. (B) Frequency of cells secreting total or Ag-specific (BSA or CA/09 HAΔSA) Ab utilizing a κ or λ L chain are presented as the mean (± SD) (n = 4). Statistical significance was assessed using the paired t test. (A and B) Data were generated in a single experiment and are representative of three independent experiments. *p < 0.05. Fig 8. PMID: 29079697.

References

- Kirchenbaum GA, Allen JD, Layman TS, Sautto GA, Ross TM. Infection of Ferrets with Influenza Virus Elicits a Light Chain-Biased Antibody Response against Hemagglutinin. *J Immunol.* (2017)

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