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Datasheet for 618-102-130

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

Overview

Description:	Goat Anti-Ferret IgG IgA IgM (H&L) Antibody Fluorescein Conjugated - 618-102-130
Item No.:	618-102-130
Size:	1 mg
Applications:	ELISA, FC
Reactivity:	Ferret
Host Species:	Goat

Product Details

Background:	Anti-Ferret IgG IgA IgM Fluorescein 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 fluorescein conjugation, goat anti-ferret IgGAM FITC conjugated antibody
Host Species:	Goat
Specificity:	IgG IgA IgM
Conjugate:	Fluorescein (FITC)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	2.8

Target Details

Reactivity:	Ferret
Immunogen:	Ferret IgG IgA and IgM whole molecules

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-Fluorescein, anti-Goat Serum, Ferret IgG, Ferret IgA and Ferret IgM. This reagent is suitable for the detection of all Ferret isotypes and chain combinations.

Application Details

Suggested Applications:	ELISA, FC (Based on references)
Application Note:	This product is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	1:500 - 1:2,500
FLISA:	1:10,000 - 1:50,000
IF:	1:1,000 - 1:5,000

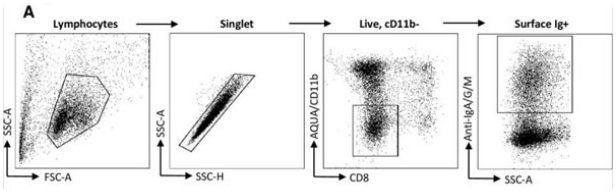
Formulation

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) 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)

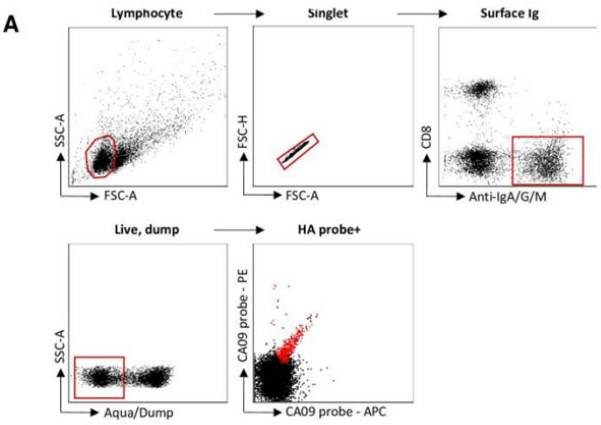
Shipping & Handling

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.

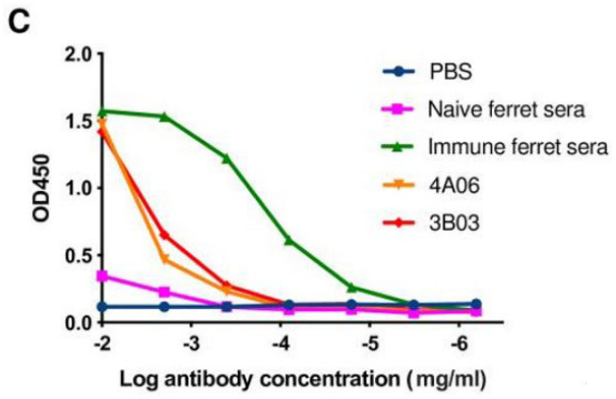
Images



Flow Cytometry
Genetic features of recovered ferret heavy chain immunoglobulin sequences. (A) Gating scheme for sorting single ferret Bcells for PCR recovery of recombined immunoglobulin genes. Fig 3. PMID: 32470013.



Flow Cytometry
Recovery and expression of ferret immunoglobulins from HA-specific B cells. (A) Gating scheme for flow cytometric sorting of single B cells from lymph node suspensions from ferrets infected with A/California/04/2009. Cells binding recombinant HA probes (red) were sorted into 96-well plates for multiplex PCR amplification of heavy and light chain immunoglobulin sequences. Fig 6. PMID: 32470013.



ELISA
Recovery and expression of ferret immunoglobulins from HA-specific B cells. (C) Binding of fully-ferret monoclonal antibodies to A/California/09/2009 HA protein was measured by ELISA. Ferret monoclonal antibodies 4A06 and 3B03 or serum samples from immunologically naïve ferrets (naïve serum) or ferrets infected with 1000 TCID50 A/California/04/2009 (immune serum) (28 d.p.i) were serially diluted in PBS to detect A/California/04/2009 HA binding. 1x PBS was included as a negative control (no ab control). Fig 6. PMID: 32470013.

References

- Wong J. et al. Sequencing B cell receptors from ferrets (Mustela putorius furo). *PLoS One.* (2020)

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