Datasheet for ABIN5608045

# Goat anti-Ferret IgG Antibody (Biotin)

1 Image | 1 Publication

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## Overview

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

## Product Details

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| Purpose: | Ferret IgG (gamma chain) Antibody Biotin Conjugated |
| Immunogen: | Optional[Immunogen]: Ferret IgG gamma heavy chain |
| Isotype: | IgG |
| Cross-Reactivity (Details): | 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. |
| Characteristics: | Anti-Ferret IgM antibody specifically detects ferret IgM. |
| Purification: | 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. |

## Target Details

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| 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

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| Application Notes: | 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. Immunohistochemistry Dilution: 1:1,000 - 1:5,000 Western Blot Dilution: 1:2,000 - 1:10,000 ELISA Dilution: 1:20,000 - 1:100,000 Other: User Optimized |
| Restrictions: | For Research Use only |

## Handling

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| 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<br>Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free<br>, Preservative:0.01 % (w/v) Sodium Azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |

## Handling

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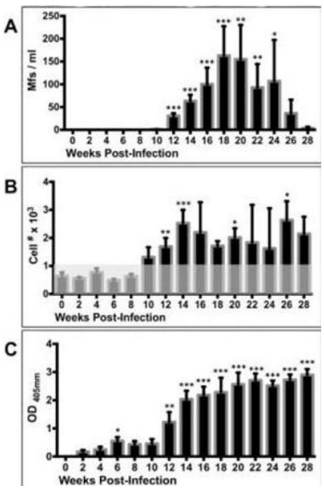
| Storage Comment: | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an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

## Publications

| | |
|---|---|
| Product cited in: | Jackson-Thompson, Kim, Jaiswal, Scott, Jones, Morris, Fite, Laurie, Hoy, Dardzinski, Mitre: " Brugia malayi infection in ferrets - A small mammal model of lymphatic filariasis." in: **PLoS neglected tropical diseases**, Vol. 12, Issue 3, pp. e0006334, (2018) (PubMed). |

## Images




**ELISA**

**Image 1.** 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.