

Datasheet for ABIN100953

Goat anti-Cat IgG (Heavy & Light Chain) Antibody (HRP)[Go to Product page](#)**3** Images

Overview

Quantity:	2 mg
Target:	IgG
Binding Specificity:	Heavy & Light Chain
Reactivity:	Cat
Host:	Goat
Clonality:	Polyclonal
Conjugate:	HRP
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Purpose:	Cat IgG (H&L) Antibody Peroxidase Conjugated
Immunogen:	Optional[Immunogen]: Cat IgG whole molecule
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Cat IgG and Cat Serum.
Purification:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Cat IgG coupled to agarose.

Target Details

Target:	IgG
---------	-----

Target Details

Abstract:	IgG Products
Target Type:	Antibody
Background:	<p>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. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition. Anti-Cat IgG (H&L) antibody is ideal for investigators in Immunology, Cancer, and Microbiology research.</p>

Application Details

Application Notes:	<p>Application Note: This product has been assayed against 1.0 µg of Cat IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.</p> <p>Immunohistochemistry Dilution: 1:500 - 1:2,500 Western Blot Dilution: 1:1,000 - 1:10,000 ELISA Dilution: 1:10,000 - 1:50,000 Other: User Optimized</p>
Restrictions:	For Research Use only

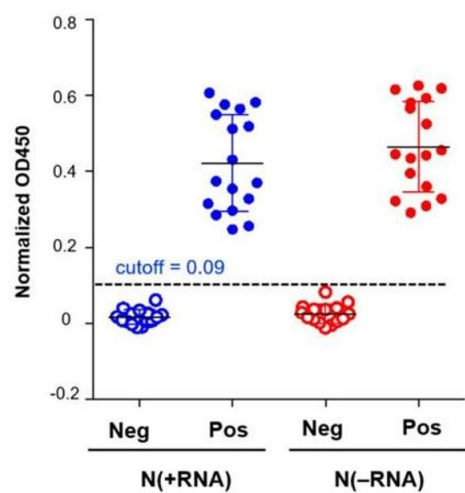
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 1.0 mL
Concentration:	2.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free , Preservative: 0.01 % (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Preservative:	Gentamicin sulfate
Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	4 °C,-20 °C
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

Images

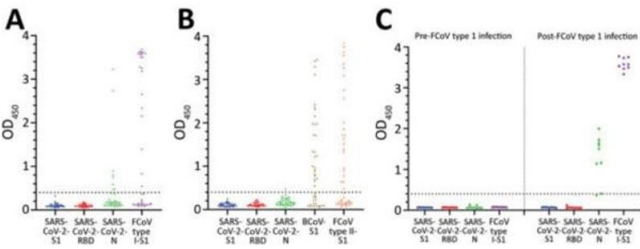


ELISA

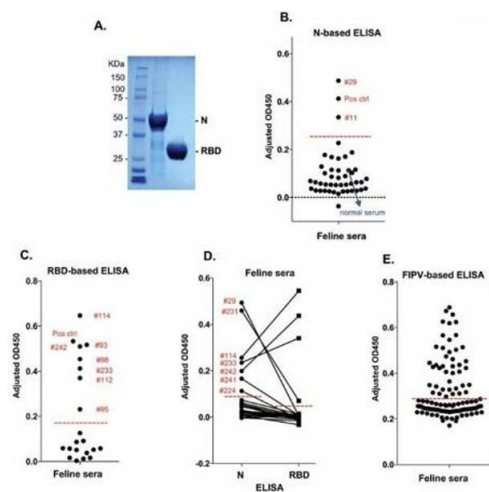
Image 1. ELISA results using Goat Anti-Cat IgG HRP Evaluation of N(+RNA) and N(-RNA) proteins in the N-based ELISA using feline clinical serum samples. Seventeen seropositive (pos) and 14 seronegative (neg) cat serum samples were analyzed by N-based ELISA with either N(+RNA) and N(-RNA). The cutoff OD450 value is shown as a dashed line. Figure 4. PMID: 34451501.

ELISA

Image 2. ELISA results using Goat Anti-Cat IgG HRP. ELISA reactivities against different antigens of pre-coronavirus disease (COVID-19) cat and dog serum samples and paired samples of FCoV type I infection, the Netherlands. A) Reactivities of pre-COVID-19 cat serum samples against SARS-CoV-2 S1, RBD, N, and FCoV type I S1. B) Reactivities of pre-COVID-19 dog serum samples against SARS-CoV-2 S1, RBD, N, BCoV S1, and FCoV type II S1. C) Reactivities of paired SPF cat serum samples (left panel) and FCoV type I-specific serum samples (right panel) to SARS-CoV-2 S1, subunit, RBD, N, and FCoV S1 protein levels were determined by ELISA. Dotted lines indicate positive cutoff levels. BCoV, bovine coronavirus, FCoV, feline coronavirus, N, nucleocapsid, OD, optical density, RBD, receptor-binding domain, S1, spike protein subunit 1, SARS-CoV-2, severe



acute respiratory syndrome coronavirus 2, SPF, specific pathogen free. Figure 1. PMID: 33900184.



ELISA

Image 3. ELISA results using Goat Anti-Cat IgG HRP. Serological tests of pet cat sera by ELISA. (a) Purified recombinant SARS-CoV-2 N and RBD proteins shown in SDS-PAGE gel after Coomassie blue staining. (b) A representative SARS-CoV-2 N IgG ELISA with pet cat sera. Normal cat serum purchased from a commercial source, the positive control (SARS-CoV N-specific mAb 1C7C7), and two seropositive samples (#29 and #11) are shown. (c) Pet cat sera tested by RBD IgG ELISA. The positive control (mAb 1C7C7), and seropositive samples are shown. (d) A batch of pet cat sera were tested with both N and RBD IgG ELISA. None of the RBD-positive sera are N-negative. The ID# of N seropositive samples are shown. (e) Evaluation of pet cat sera with IgG ELISA against feline infectious peritonitis virus (FIPV) antigens. Each serum was tested pairwise in uncoated and coated wells in technical duplicates. The adjusted OD450 value was calculated by subtracting OD450 value of uncoated well from that of the coated well. The cutoff OD450 value was calculated as described in Materials and Methods and shown as a red dash line. Figure 1. PMID: 34125647.