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Datasheet for 605-4613

Goat IgG (H&L) Antibody Biotin Conjugated Pre-Adsorbed

Overview

Description:	Rabbit Anti-Goat IgG (H&L) Antibody Biotin Conjugated (Min X Human Serum Proteins) - 605-4613
Item No.:	605-4613
Size:	1 mg
Applications:	ELISA, IHC
Reactivity:	Goat
Host Species:	Rabbit

Product Details

Background:	Anti-Goat IgG Biotin Antibody generated in rabbit detects goat 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. 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-Goat IgG (H&L) Antibody is ideal for researchers in Immunology, Cancer, and Microbiology research.
Synonyms:	Goat IgG (H&L) Antibody, Rb-a-Goat Biotin conjugated, Goat IgG (H&L) Antibody in Rabbit, rabbit anti-Goat IgG Biotin conjugated Secondary Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Goat
Immunogen:	Goat IgG whole molecule
Purity/Specificity:	Anti-Goat IgG (H&L) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Goat IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin, anti-Rabbit Serum, Goat IgG and Goat Serum. No reaction was observed against Human Serum Proteins.

Application Details

Tested Applications:	ELISA
Suggested Applications:	IHC (Based on references)
Application Note:	Anti-Goat IgG Biotin Conjugated Antibody has been tested by ELISA and is assayed against 1.0 ug of Goat IgG in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and 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 1:28,000 to 1:116,000 of the reconstitution concentration is suggested for Anti-Goat IgG (H&L) Antibody.
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.

References

- Ruz-Maldonado I et al. Heterogeneity of hepatocyte dynamics restores liver architecture after chemical, physical or viral damage. *Nat Commun.* (2024)
- Histol Histopathol. Long-term type 1 diabetes alters the deposition of collagens and proteoglycans in the early pregnant myometrium of mice. *Favaro RR, Raspantini PR, Salgado RM, Fortes ZB, Zorn TM.* (2015)

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