

Datasheet for 605-4602**Goat IgG (H&L) Secondary Antibody Biotin Conjugated****Overview**

Description:	Rabbit Anti-Goat IgG (H&L) Antibody Biotin Conjugated - 605-4602
Item No.:	605-4602
Size:	2 mg
Applications:	ELISA, IHC, Microarray
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.
Synonyms:	rabbit Anti-Goat IgG Biotin conjugated antibody, Conjugated Secondary Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Goat
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Immunogen:	Goat IgG whole molecule
Purity/Specificity:	Goat Secondary Antibodies are 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.

Application Details

Tested Applications:	ELISA
Suggested Applications:	IHC, Microarray (Based on references)
Application Note:	Anti-Goat IgG Biotin Antibody has been tested by ELISA. Secondary antibody reagents are ideal for western blotting, Immunohistochemistry, ELISA, Fluorescence Microscopy, Flow Cytometry as well as other antibody detection methods.
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:	2.0 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)

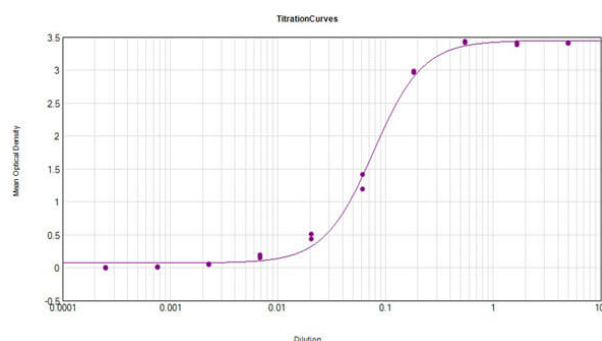
Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition: Store Goat Secondary Antibody at 4° C prior to restoration. For extended storage aliquot secondary antibody 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

ELISA Results of Rabbit Anti-Goat IgG Antibody Biotin Conjugated tested against purified Goat IgG Biotin. Each well was coated in duplicate with 1.0 µg of Goat IgG (p/n 005-0102). The working dilution is 1:13,000. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using HRP Conjugate Stabilizer (p/n MB-076), Streptavidin-HRP conjugated (p/n S000-03) and TMB substrate (p/n TMBE-1000).

References

- 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)
- Deanna L Thompson et al. An adaptable, portable microarray reader for biodetection. *Sensors (Basel).* (2009)

Disclaimer

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