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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 605-4313

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

Overview

Description:	Rabbit Anti-Goat IgG (H&L) Antibody Peroxidase Conjugated (Min X Human Serum Proteins) - 605-4313
Item No.:	605-4313
Size:	1 mg
Applications:	ELISA, WB
Reactivity:	Goat
Host Species:	Rabbit

Product Details

Background:	Anti-Goat IgG Peroxidase 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:	Goat IgG (H&L) Antibody, Rb-a-Goat IgG (H&L) Peroxidase conjugated, Goat IgG (H&L) Peroxidase Antibody in rabbit, rabbit anti-goat IgG peroxidase conjugated Secondary Antibody
Host Species:	Rabbit
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Goat
Immunogen Type:	Native Protein
Immunogen:	Goat IgG whole molecule
Purity/Specificity:	This product 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-Peroxidase, anti-Rabbit Serum, Goat IgG and Goat Serum. No reaction was observed against Human Serum Proteins.

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Goat IgG (H&L) peroxidase conjugated has been tested by ELISA and western blot and is suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:120,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000

Formulation

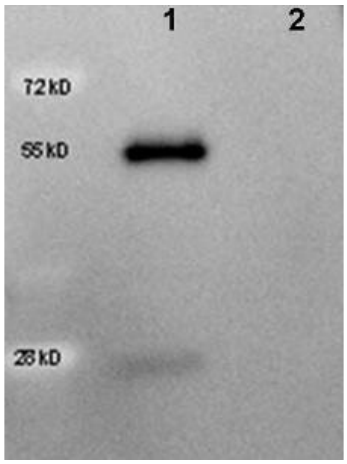
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
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



Western Blot
Western Blot of Peroxidase conjugated Rabbit anti-Goat IgG antibody. Lane 1: Goat IgG. Lane 2: Human IgG. Load: 50 ng per lane. Primary antibody: none. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000 for 60 min at RT. Block: 5% BSA-TBS overnight at 4°C. Predicted/Observed size: 55 kDa, 28 kDa for Goat IgG. Other band(s): none.

References

- Ercan et al. Neuronal CTGF/CCN2 negatively regulates myelination in a mouse model of tuberous sclerosis complex. *Journal of Experimental Medicine* (2017)
- Ko et al. Advanced glycation end products influence oral cancer cell survival via Bcl-xl and Nrf-2 regulation in vitro. *Oncology Letters* (2017)
- Suzuki T et al. Efficient antibody production in the methylotrophic yeast Ogataea minuta by overexpression of chaperones. *J Biosci Bioeng.* (2017)
- Tarassishin L et al. Interleukin-1-induced changes in the glioblastoma secretome suggest its role in tumor progression. *Journal of Proteomics* (2014)
- van der Hoogt CC et al. Fenofibrate increases HDL-cholesterol by reducing cholesteryl ester transfer protein expression. *J Lipid Res.* (2007)
- de Haan W et al. Atorvastatin increases HDL cholesterol by reducing CETP expression in cholesterol-fed APOE* 3-Leiden. CETP mice. *Atherosclerosis.* (2007)

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