Order online now!

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

Datasheet for 606-103-129

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

Overview

Description:	Goat Anti-Guinea Pig IgG (H&L) Antibody Peroxidase Conjugated (Min X Bv Ch Gt Ham Hs Hu Ms Rb Rt & Sh Serum Proteins) - 606-103-129
Item No.:	606-103-129
Size:	1 mg
Applications:	ELISA, WB, IHC
Reactivity:	Guinea Pig
Host Species:	Goat

Product Details

Background:	Anti-Guinea Pig IgG Peroxidase Antibody generated in goat detects guinea pig 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:	Guinea Pig IgG (H&L) Antibody, Gt-a-Guinea Pig IgG (H&L) Peroxidase conjugated, Guinea Pig IgG (H&L) Peroxidase Antibody in goat, goat anti-Guinea Pig IgG HRP secondary antibody, goat anti-guinea pig IgG peroxidase conjugated antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Guinea Pig
Immunogen Type:	Native Protein
Immunogen:	Anti-Guinea Pig IgG (H&L) was produced by repeated immunization with Guinea Pig IgG whole molecule in goat.
Purity/Specificity:	Anti-Guinea Pig IgG (H&L) peroxidase conjugated antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Guinea Pig 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-Goat Serum, Guinea Pig IgG and Guinea Pig Serum. No reaction was observed against Bovine, Chicken, Goat, Hamster, Horse, Human, Mouse, Rabbit, Rat and Sheep Serum Proteins.

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IHC (Based on references)
Application Note:	Anti-Guinea Pig IgG HRP has been tested by ELISA and western blot and is suitable for immunoblotting, western blot, 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:	1:100,000 - 1:200,000
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 Goat anti-Guinea Pig IgG HRP Antibody. Lane 1: Molecular Weigh Ladder. Lane 2: Guinea Pig IgG. Lane 3: Bovine Serum. Lane 4: Chicken Serum. Lane 5: Goat Serum. Lane 6: Hamster Serum. Lane 7: Horse Serum. Lane 8: Human Serum. Lane 9: Mouse Serum. Lane 10: Rabbit Serum. Lane 11: Rat Serum. Lane 12: Sheep Serum. Lane 13: MW. Loading: 50ng IgG, Serum at 1:8 dilution. Blocking Buffer: BlockOut MB-073 for 30 min at RT. Secondary Antibody: Gt-a-GP IgG HRP at 1:40,000.

References

- Furukawa S et al. Databases for technical aspects of immunohistochemistry. *J Toxicol Pathol.* (2017)
- Reischl A et al. Viral evolution toward change in receptor usage: adaptation of a major group human rhinovirus to grow in ICAM-1-negative cells. *J Viral.* (2001)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.