

Datasheet for 214-4102

Swine IgG (H&L) Antibody**Overview**

Description:	Rabbit Anti-Swine IgG (H&L) Antibody - 214-4102
Item No.:	214-4102
Size:	50 mg
Applications:	WB
Reactivity:	Pig
Host Species:	Rabbit

Product Details

Background:	Anti-Swine IgG (H&L) generated in rabbit detects swine Immunoglobulin G. Both the Heavy and Light chains of the antibody molecule are present. Representing approximately 75% of serum immunoglobulins, IgG is the most abundant antibody isotype found in the circulation. IgG molecules are synthesized and secreted by plasma B cells. 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-Swine IgG Antibody, rabbit anti Swine IgG
Host Species:	Rabbit
Specificity:	IgG (H&L)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Pig
Immunogen:	Swine IgG whole molecule

Purity/Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, Swine IgG and Swine Serum.
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Application Details

Tested Applications:	WB
Application Note:	Anti-Swine antibody is tested by Western blot and suitable for use in ELISA and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user.
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

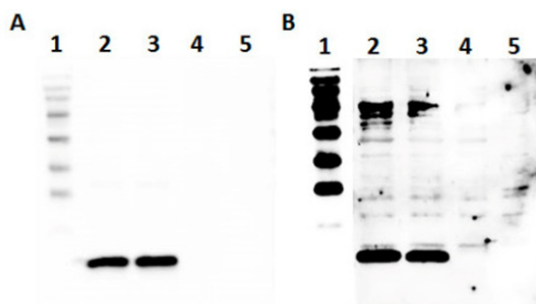
Formulation

Physical State:	Lyophilized
Concentration:	10.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

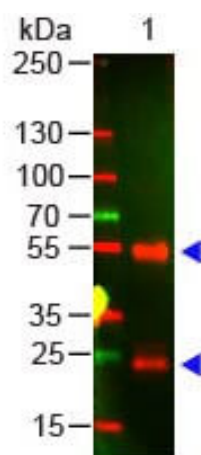
Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 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

Antibody reactivity to the recombinant ASFV p11.5 protein expressed in the COS-1 cells in the Western blotting analysis and the immunofluorescence assay (IFA). (A) Western blotting analysis with anti-HA-tag monoclonal antibody: lane 1—MW marker; lane 2—the recombinant p11.5 protein (clone 1); lane 3—the recombinant p11.5 protein (clone 2); lanes 4–5—the COS-1 cell lysate; (B) Western blotting analysis with anti-ASFV hyperimmune sera in 1:100 dilution: lanes 1—MW marker; lane 2—the recombinant p11.5 protein (clone 1); lane 3—the ASFV recombinant p11.5 protein (clone 2); lanes 4–5—the COS-1 cell lysate. Fig 6. PMID: 39272254



Western Blot

Western Blot of Rabbit anti-Swine IgG Antibody. Lane 1: Swine IgG (p/n 014-0102). Load: 100 ng per lane. Primary antibody: Swine IgG Antibody at 1:1000 for overnight at 4°C. Secondary antibody: DyLight™ 649 goat anti-rabbit (p/n 611-143-002) at 1:20,000 for 30 min at RT. Block: (p/n MB-070) for 30 min at RT.

References

- Koltsov A et al. Towards Safe African Swine Fever Vaccines: The A137R Gene as a Tool to Reduce Virulence and a Promising Serological DIVA Marker Candidate. *Animals (Basel)*. (2024)

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.