

Datasheet for 200-403-095S**Streptavidin Antibody Peroxidase Conjugated****Overview**

Description:	Anti-Streptavidin (RABBIT) Antibody Peroxidase Conjugated - 200-403-095S
Item No.:	200-403-095S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Streptavidin
Host Species:	Rabbit

Product Details

Background:	Anti-streptavidin antibody detects Streptavidin, a 60 kDa protein purified from the bacterium <i>Streptomyces avidinii</i> . Streptavidin is a homo-tetrameric protein having a very high affinity for biotin (vitamin B7). Streptavidin bound biotin has a dissociation constant (Kd) on the order of about 10^{-14} mol/L. Streptavidin and biotin are used extensively in molecular biology and bionanotechnology due to the resistance of streptavidin-biotin complex to organic solvents, denaturants (e.g. guanidinium chloride), detergents (e.g. SDS, Triton), proteolytic enzymes, and extremes of temperature and pH.
Synonyms:	rabbit anti-Streptavidin Antibody HRP Conjugation, Peroxidase conjugated rabbit anti-Streptavidin antibody, Anti-Streptavidin HRP Antibody
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Streptavidin
Immunogen Type:	Native Protein
Immunogen:	Streptavidin [<i>Streptomyces avidinii</i>]

Purity/Specificity:	Streptavidin Antibody Peroxidase Conjugate 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-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Streptavidin [Streptomyces avidinii]. No cross reactivity occurs against avidin.
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Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Streptavidin Peroxidase antibody has been tested by ELISA and western blot. This product has been assayed against 1.0 ug of Streptavidin in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) for 30 minutes at room temperature. Optimal concentrations in immunoassays should be determined by researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000-1:10,000

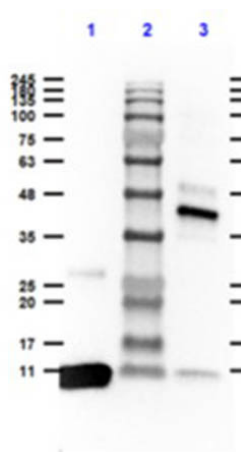
Formulation

Physical State:	Liquid (sterile filtered)
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

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot Results of Rabbit Anti-Streptavidin Antibody Peroxidase Conjugated.

Lane 1: Streptavidin Reduced [0.05µg].

Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500).

Lane 3: Streptavidin Non-Reduced [0.05µg].

Primary Antibody: Anti-Streptavidin Peroxidase at 1:1000 overnight at 2-8°C.

Secondary Antibody: Goat Anti-Rabbit IgG Peroxidase (p/n 611-103-122) at 1:70,000 for 30mins at RT.

Blocking Buffer: BlockOut® Universal Blocking Buffer (p/n MB-073) for 1 hour at RT.

Expect: Reduced- monomer ~17kDa; Non-Reduced- tetramer ~45kDa.

Exposure: 5sec.

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.