

Datasheet for 200-403-095

Streptavidin Antibody Peroxidase Conjugated

Overview

Description:	Anti-Streptavidin (RABBIT) Antibody Peroxidase Conjugated - 200-403-095
Item No.:	200-403-095
Size:	100 µg
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 bio nanotechnology 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
Specific Activity:	0.482

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

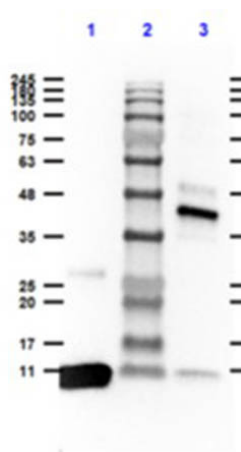
Formulation

Physical State:	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:	100 µL
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 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.