

Anti-STREPTAVIDIN (RABBIT) Antibody - 100-4195

Code: 100-4195

Size: 2 mL

Product Description: Anti-STREPTAVIDIN (RABBIT) Antibody - 100-4195

Concentration: 70 mg/mL by Refractometry

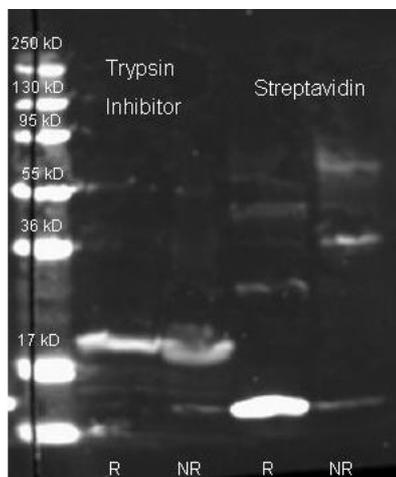
PhysicalState: Lyophilized

Label	Unconjugated
Host	Rabbit
Species Reactivity	Streptomyces avidinii
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	2.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	rabbit anti-Streptavidin Antibody, rabbit anti Streptavidin
Application Note	Suitable for immunoblotting (western or dot blot), ELISA, immunoprecipitation and most immunological methods requiring high titer and specificity.
Background	Anti-streptavidin antibody detects Streptavidin, a 60 kDa protein purified from the bacterium Streptomyces avidinii. 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.
Purity And Specificity	Anti-STREPTAVIDIN antibody was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Streptavidin. No cross reactivity occurs against Avidin.
ELISA	1:20,000-1:100,000
Western Blot	1:2,000-1:10,000
Immunohistochemistry	1:1,000-1:5,000
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Streptavidin (Streptomyces avidinii)
Related Products	
	200-301-268 Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
	610-4302 Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
	611-1302 Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
	B304 NORMAL GOAT SERUM (NGS) - B304

Images

1

Rockland Rabbit anti Streptavidin (200-4195 lot 23495) and Biotin conjugated Rabbit anti-trypsin inhibitor antibody (200-4679 lot 6594) were used to detect target proteins Trypsin Inhibitor (left) and Streptavidin (right) under reducing (R) and non-reducing (NR) conditions. Reduced samples of purified target proteins contained 4% BME and were boiled for 5 minutes. Samples of ~1ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with 1:1000 dilution of primary antibody (ON 4 C). Detection shown was using Dylight 649 conjugated Donkey anti rabbit (611-743-127 lot 20831 1:10K 1.5 hr RT in MB-070) and imaged on the BioRad VersaDoc System



2

Dot Blot showing the detection of Streptavidin. A three-fold serial dilution of DyLight™ 488 Conjugated Streptavidin starting at 200ng was spotted onto 0.45 μm nitrocellulose and blocked in 1% BSA-TTBS (p/n MB-013, diluted to 1X) 30 min at 20°C. Anti-Streptavidin (RABBIT) Antibody (p/n 100-4195) was incubated in Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) at 1:1,000 for 1 Hour at 20°C. An HRP Gt-a-Rb secondary antibody was incubated at 1:40,000 for 30 min at 20°C and imaged using the Bio-Rad VersaDoc® 4000 MP.

1



0.0025 μg

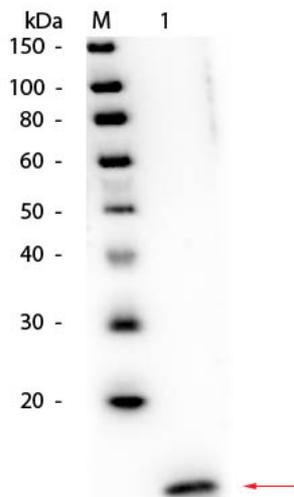
0.0075 μg

0.022 μg

0.067 μg

0.2 μg

Western Blot of Rabbit anti-Streptavidin Antibody. Lane 1: Streptavidin. Load: 50 ng per lane. Primary antibody: Rabbit anti-Streptavidin Antibody at 1:1,000 overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody (p/n 611-103-122) at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 13.8 kDa, 13.8 kDa. Streptavidin exhibits a homotetramer structure with four essentially identical polypeptide chains. Pictured is reduced protein.



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.